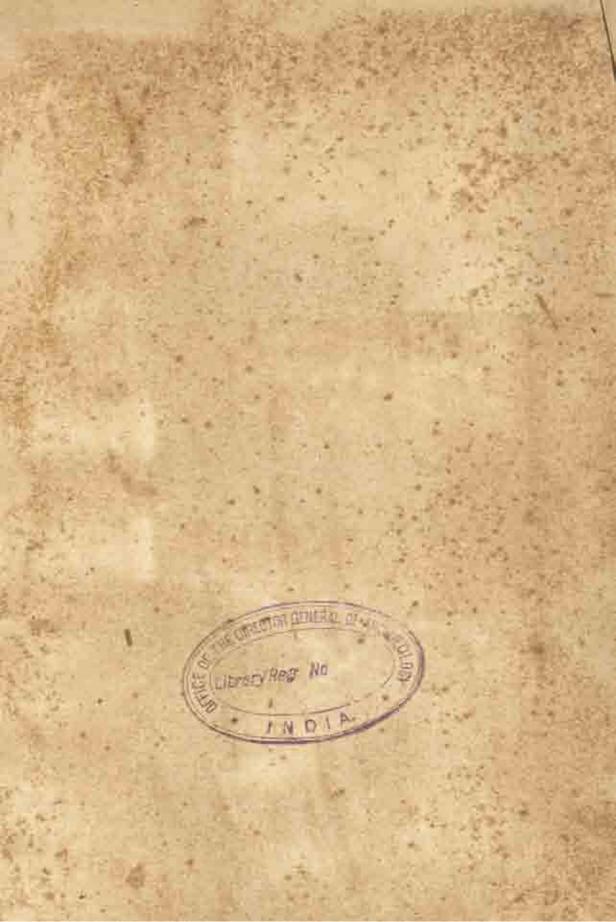
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## THE JOURNAL

## HELLENIC STUDIES



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### THE JOURNAL

OF

## HELLENIC STUDIES

25972

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### RULES

OF THE

### Society for the Promotion of Hellenic Studies.

- 1. THE objects of this Society shall be as follows:-
- To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Hellenic periods, by the publication of memoirs and unedited documents or monuments in a Journal to be issued periodically.
- II. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions, MSS., works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archaeological and topographical interest.
- III. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archæological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President, Vice-Presidents, a Council a Treasurer, one or more Secretaries, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be ex officio members of the Council.
- 3. The President shall preside at all General, Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside.
- 4. The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conducive to the objects of the Society: in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty

 In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.

- 7. The Council shall meet as often as they may deem necessary for the despatch of business.
- 8. Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- 9. Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- to. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- 11. The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- 12. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council, and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council.
- 13. Two Auditors, not being Members of the Council, shall be elected by the Society in each year.
- 14 A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.
- 15. The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- 16. The President shall be elected by the Members of the Society at the Annual Meeting for a period of five years, and shall not be immediately eligible for re-election.
- 17. The Vice-Presidents shall be elected by the Members of the Society at the Annual Meeting for a period of one year, after which they shall be eligible for re-election.

-

- 18. One-third of the Council shall retire every year, but the Members so retiring shall be eligible for re-election at the Annual Meeting.
- 19. The Treasurer and Secretaries shall hold their offices during the pleasure of the Council.
- 20. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council.
- 21. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held.
- 22. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 23. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 24. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 25. The names of all candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their next Meeting the Council shall proceed to the election of candidates so proposed: no such election to be valid unless the candidate receives the votes of the majority of those present.
- 26. The Annual Subscription of Members shall be one guinea, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 151, entitling compounders to be Members of the Society for life, without further payment. All Members elected on or after January 1, 1905, shall pay on election an entrance fee of two guineas.
- 27. The payment of the Annual Subscription, or of the Life Composition, entitles each Member to receive a copy of the ordinary publications of the Society.
- 28. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.

- 29. Members intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1; otherwise they will be held liable for the subscription for the current year.
- 30. If at any time there may appear cause for the expulsion of a Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.
- 31. The Council shall have power to nominate British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten.
- 32. The Council may, at their discretion, elect for a period not exceeding five years Student-Associates, who shall be admitted to certain privileges of the Society.
- 33. The names of Candidates wishing to become Student-Associates shall be submitted to the Council in the manner prescribed for the Election of Members. Every Candidate shall also satisfy the Council by means of a certificate from his teacher, who must be a person occupying a recognised position in an educational body and be a Member of the Society, that he is a bond fide Student in subjects germane to the purposes of the Society.
- 34. The Annual Subscription of a Student-Associate shall be one guinea, payable and due on the 1st of January in each year. In case of non-payment the procedure prescribed for the case of a defaulting Ordinary Member shall be followed.
- 35. Student-Associates shall receive the Society's ordinary publications, and shall be entitled to attend the General and Ordinary Meetings, and to read in the Library. They shall not be entitled to borrow books from the Library, or to make use of the Loan Collection of Lantern Slides, or to vote at the Society's Meetings.
- 36. A Student-Associate may at any time pay the Member's entrance fee of two guineas, and shall forthwith become an Ordinary Member.
- 37. Ladies shall be eligible as Ordinary Members or Student-Associates of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members or Student-Associates.
- 38. No change shall be made in the Rules of the Society unless at least a formight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed.

#### RULES FOR THE USE OF THE LIBRARY

AT 22, ALBEMARLE STREET.

- THAT the Library be administered by the Library Committee, which shall be composed of not less than four members, two of whom shall form a quorum.
- 11. That the custody and arrangement of the Library be in the hands of the Hon, Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.
- III. That all books, periodicals, plans, photographs, &c., be received by the Hon, Librarian, Librarian or Secretary and reported to the Council at their next meeting.
- IV. That every book or periodical sent to the Society be at once stamped with the Society's name.
- V. That all the Society's books be entered in a Catalogue to be kept by the Librarian, and that in this Catalogue such books, &c., as are not to be lent out be specified.
- VI. That, except on Christmas Day, Good Friday, and on Bank Holidays, the Library be accessible to Members on all week days from eleven A.M. to six P.M. (Saturdays, 11 A.M. to 2 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation from July 20 to August 31 (inclusive).
- VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:-
  - (1) That the number of volumes lent at any one time to each Member shall not exceed three.
  - (2) That the time during which such book or books may be kept shall not exceed one month.
  - (3) That no books be sent beyond the limits of the United Kingdom.
  - VIII. That the manner in which books are lent shall be as follows:-
    - That all requests for the loan of books be addressed to the Librarian.
    - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
    - (3) That in each case the name of the book and of the borrower be inscribed, with the date, in a special register to be kept by the Librarian.
    - (4) Should a book not be returned within the period specified, the Librarian may reclaim it.

- (5) All expenses of carriage to and fro shall be borne by the borrower.
- (b) All books are due for return to the Library before the summer vacation.

IX. That no book falling under the following categories be lent out under any circumstances:-

- (1) Unbound books.
- (2) Detached plates, plans, photographs, and the like.
- (3) Books considered too valuable for transmission.
- (4) New books within one month of their coming into the Library.

X. That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library.

XI. That in the case of a book being kept beyond the stated time the borrower be liable to a fine of one shilling for each week after application has been made by the Librarian for its return, and if a book is lost the borrower be bound to replace it.

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Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the Librarian (Mr. J. ff. Baker-Penoyre), at 22, Albemarle Street, W.

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Revue des Études Grecques, Publication Trimestrielle de l'Association pour l'Enconragement des Études Grecques en France, Paris.

Rheinisches Museum für Philologie (Professor Dr. F. Bucheler, Schumaunstrasse, Bonnam-Rhein, Germany).

Transactions of the Cambridge Philological Society and Journal of Philology

Weehenschrift für klassische Philologie.

### SESSION 1905-6.

THE First General Meeting of the Society was held on November 7th, when Mr. S. H. Butcher took the chair. Professor E. A. Gardner read a paper on the Tegean pediments with particular reference to the figure of Atalanta, which appears in this volume.

Mr. G. F. Hill read a note on a bronze coin of Asine, in Messema, representing the head of Apollo and the figure of his son Dryops, the eponymous hero of the Dryopians. The Asinaeans were particularly proud of their Dryopian descent: besides their temple of Apollo, they had, Pausanias tells us, a shrine and an ancient agalma of Dryops. On the coin the hero is represented enthroned, holding a kantharos; the type is obviously copied from an archaic relief similar to the 'ancestor-reliefs,' which are almost entirely of Laconian origin. The existence, proved by this coin, of a Laconian style of relief on this Messenian site is interesting in view of the historical relations between Asine and Sparta. The Asinaeans, while still inhabiting Asine, in Argolis, had given assistance to Sparta against Argos; expelled from their home by the Argives, they received the Messenian site from the Spartans. The paper was discussed by Professor P. Gardner, Mr. A. H. Smith, and Professor E. Gardner.

The Second General Meeting of the Society was originally fixed for December 12th, but was adjourned on that occasion as a mark of respect to the late President, Sir Richard Jebb, whose death had occurred a few days before. The meeting was ultimately held on January 16th, when the chair was taken by Professor Percy Gardner, the newly elected President of the Society, who delivered an address to the memory of his predecessor. Sir Richard Jebb. Professor W. C. F. Anderson then read a paper on Greek and Roman ships with multiple banks of oars. The problem of the arrangement of oars in the Greek warship is old, and was first discussed in the sixteenth century. Practical seamen held that the warships of the ancients were similar to those of their own day-a view which was never accepted by scholars. For the last two centuries it has been generally agreed that Scaliger and Palmerius had proved that the banks or benches were superposed, giving horizontal rows of oars. There has, however, been much difference of opinion as to the way in which this was done. Mr. Tarn's attempt to revive Bayfield's theory that the thranite, zugite, and thalamite were squads rowing in the stern, in the middle, and the bows is not justified

by the passages he quotes, and can only succeed if we admit that are means 'aft,' and sare, 'forward.' Similarly his explanation of biscores and τρικροτος as referring to these squads is not borne out by their use in classical authors. The literary evidence, both Greek and Latin, cannot be reconciled with the theory that the oars were all on the same level. The monumental evidence is also equally clear, although few representations shew more than two banks. The linguistic evidence is also strong, as the terms 'thranite,' &c., have a natural meaning if the banks are superposed Further, the Byzantine dromos had two rows of banks one above the other; and the Venetian galley, with several oars to one port, was an attempt to secure a lower freeboard without loss of power. The sixteenth century galley, with long sweeps and five to seven men pulling each, was intended to provide a gun platform. It was not a new invention, but merely the conversion of a lighter or barge into a warship, as the additional weight made the use of short oars less effective. The objections to the accepted theory have always been the length of pars in the upper banks; but the use of long oars on vessels with a high freeboard was shown in the tapestry in the old House of Lords, where two Spanish men-of-war were depicted using sweeps from their upper deck. Even in the fifties of last century to-gun brigs, such as Darwin's Beagle, were aided by sweeps when chasing slavers. A parallel to Greek and Roman ships is to be found in Burmese vessels, which are very like them in structure, and represent about the same stage of development. The paper was illustrated, and a photograph of the Cataphract on the Uhibad relief was shown for the first time.

In the discussion which followed Mr. S. H. Butcher, Mr. Cecil Smith, Dr. Edmond Warre, and Mr. A. B. Cook took part. Mr. Cook showed a model (built by Messrs. Swan, Hunter and Richardson) of part of an

ancient trireme in elucidation of his views.

At the Third General Meeting held on February 20th, Mr. E. Norman Gardiner read a paper on Heracles the Pancratiast, the substance of which appears in this volume.

At the Fourth General Meeting, held on May 8th, Professor Percy Gardner took the chair, when Mr. Cecil Smith, Keeper of the Department of Greek and Roman Antiquities in the British Museum, gave the first of his promised annual accounts of acquisitions in his department. He had arranged that acquisitions should be on view in a separate case at the Museum for a year before their incorporation in the collections, and this departure was to be supplemented by an annual resume to be given at a meeting of the Hellenic Society. The main difficulty with which his department, in common with others, had to contend, was the inadequate grant at their disposal for making purchases. Despite the increase in the market price of antiquities, the funds at the disposal of the authorities were decidedly less than was the case twenty years ago. The present account comprised the more important acquisitions since his appointment in 1903.

Among the more striking objects shown upon the screen were the following : (t) On a polychrome Attic vase was a unique representation of the mystic marriage of Dionysus with the wife of the Archon Basileus. This rite was celebrated annually in the spring at Athens, at the festival of the Anthesteria, and was doubtless intended partly to symbolise, and partly, by a sort of sympathetic magic, to secure, the fertility of the city for the coming year. (2) The lesser arts of the goldsmith and jeweller were admirably illustrated by two fine intaglios representing a girl dancing an Eros upon her foot, and a female figure seated upon the prow of a trireme. Both these works of art belonged to an earlier period than analogous types previously known. A claisonné ring showed the façade of the temple of Aphrodite at Paphos, as depicted on coins from that site; and this section was supplemented by an exquisite specimen of Greek gold granulated toreutic work, rivalling the famous pieces of the Hermitage Museum from the Crimea. (3) Among the terracottas in addition to choice specimens of the so-called Tanagra and Myrina figurines, special interest was aroused in the complete contents of a maiden's tomb, comprising a scated figure of a girl with detachable arms, nude, but probably intended to be draped with miniature garments; the marriage vase; the eminior for carding wool; and other feminine attributes, all executed on a proportionate scale in terra-cotta (4) Of bronzes, the most remarkable were several fine examples recently exhibited at the Burlington Fine Arts collection, including the Forman equestrian figure; an ape represented as a quall-catcher, holding a quall basket such as is used to-day and a lantern; a Graeco-Egyptian statuette from Spain, one of a series of figurines belonging to that Graeco-Celt-Iberian art of which the finest development is seen in the much-discussed Elche head in the Louvre; and the magnificent relief from Paramythia from the Hawkins collection, to the purchase of which Mrs. Hawkins had generously contributed besides presenting works of an analogous character. [5] Architecturally the most conspicuous addition to the collections were the columns from the "Treasury of Atreus" at Mycunae, large portions of which had been recently presented by the Marquis of Sligo. With these, and with the help of casts of the hitherto known fragments in London, Athens, and Karlsruhe a complete restoration of these remarkable columns and their capitals in their original form has now been erected in the Archaic Room of the Museum.-In view of the nature of Mr. Cecil Smith's paper no discussion followed, the Society, through the Chairman, expressing its appreciation of the communication made to them, and of the debt all students of ancient art owed to the department he represented.

The Fifth General Meeting was held on May 20th, when Mr. Horace Sandars read a paper descriptive of a collection of pre-Roman bronze votive objects from Despeñaperros, in Spain, Prof. Lewis Campbell occupying the chair. The collection was on view, and, with its affinities, was also illustrated by lantern-slides. The objects comprised representations of the human figure, in many instances of purely perfunctory workmanship, while

in others the details were carefully elaborated; some equestrian statuettes of considerable artistic merit; portions of the human body dedicated-in accordance with a usage with which we are familiar in classical, mediaeval, and modern times-as thank-offerings for recovery from sickness; and, probably to be taken in connexion with these, a set of votive surgical instruments. The ethnological bearing of these objects was interesting. The influence of Greece had reached primitive Spain by two routes-southwards from Massilia, and northwards, by the so-called Phoenician traderoutes, from Gades. To a local school of art, modified by one or both of these channels, and suited to what was then, as now, a mining population, these bronze ex-votos should be attributed. But apart from their intrinsic interest and their ethnological bearing, the collection from Despenaperros threw light on a work of first importance—the remarkable head found at Elche, the Iberian city of Ilici, now in the Louvre. This head, from the extraordinary elaboration of the coiffure, with its huge car-disks and profusion of necklaces dependent from it, produces a quite unfamiliar impression on the student of Greek art on Greek soil. But its unhesitating acceptance by the Louvie authorities and by the savants who have done most work in the field of early Iberian art-MM. Pierre Paris and Heuzey may be cited-has received fresh confirmation by the little figures from Despenaperros. These, which are themselves of undoubted antiquity. unquestionably reproduce, when due allowance has been made for the difference of material and an altogether lower standard of execution, the details in the Louvre marble which have hitherto bean regarded as unique. In the subsequent discussion the Chairman and Mr. Ceell Smith took part. The latter considered it doubtful whether the influence on Western Europe generally called Phoenician might not really be more directly Ionian. He congratulated Mr. Sandars on the side-light he had been able to throw on the Paris head, though the genuineness of that work had never been, in his judgment, matter of doubt.

The Annual General Meeting was held at Burlington House on June 25th, Prof. Percy Gardner taking the chair. The Hon. Secretary (Mr. George Macmillan) read the following report on behalf of the Council:—

In the forefront of their Report the Council wish to place on record their sense of the loss the Society has sustained by the death of their honoured President, Sir Richard Claverhouse Jebb. His unique position in the world of letters, the grace of style and clearness of vision which lent persuasion to his public atterances, his championship in political life of the cause of literae humaniores, his considered but generous affection for Greece and the Greeks of to-day, gave a peculiar appropriateness and dignity to his tenure of the Presidency of the Society for the Promotion of Hellenic Studies. The Council nominated Professor Percy Gardner, one of the Vice-Presidents, to fill the office

of President until the Annual Meeting, and they will to-day submit his name for election as President for the term of five years.

In November last His Majesty King George of Greece paid his first state visit to this country, and graciously received an address of welcome drawn up by the late President on behalf of the Council of the Society and of the Committee of the School at Athens conjointly. It should also be recorded that H.R.H. the Crown Prince of Greece has consented to fill the vacancy on the list of the Society's honorary members.

An important departure in the constitution of the Society, the creation of a class to be known as Student Associates, is now recommended by the Council for adoption. They have long felt that there was a class of younger students, specially interested in the objects of the Society, and likely, by inclination and training, to be useful members, who were debarred by the entrance fee from coming forward as candidates. They have endeavoured to devise a scheme which should confer a boon on the class in question, and inflict no injustice on those who have already assumed the full responsibilities of membership. This could only be done by giving part privilege for a part payment, and in the scheme now produced they believe that this intention is achieved in the fairest manner possible to the largest number. They regret that there will always remain individuals and classes for whom it is not possible to provide in this manner, but they believe that the scheme now laid down will, on a fair trial, prove a benefit to the class in question and to the Society at large.

Another suggested modification in the rules, of which notice has been sent to members, is that the office of President be in future tenable for five years only. A resolution to this effect will be submitted to-day.

In the past session the Society has held more than its usual number of meetings. On November 7th Professor Ernest Gardner read a paper on the Atalanta of Tegra, and Mr. G. F. Hill communicated a note on Dryops. the Hero of Axine. On January 16th Professor Percy Gardner, as President of the Society, delivered a short address in honour of the late President. and Professor W. C. F. Anderson read a paper on Greek and Roman Ships with multiple banks of oars, embodying a criticism of Mr. W. W. Tam's paper of the previous session. On February 20th Mr. E. N. Gardiner gave the results of his further research in the sphere of Greek athletics in a paper entitled Heracles the Pancratiast. On May 8th Mr. Cecil Smith spoke on the Recent Acquisitions in the Department of Greek and Roman Antiquities in the British Museum. His paper covered the principal acquisitions in his department since his appointment in 1904, but it is hoped that this resume may now become an annual event in the Society's Agenda. This striking illustration of the good relations between the Society and the Museum, which Mr. Cecil Smith emphasised in his speech at the Commemorative Meeting of 1904, will certainly be highly appreciated by members, and his valuable communications should also tend to the

development of the intelligent study of the treasures of our national

On May 29th Mr. Horace Sandars kindly exhibited his collection of Pre-Roman votice bronzes from Despenaperros in Spain, including in his paper some valuable evidence for the authenticity of the Elche bust in the Louvre.

The annual grants of £100 to the School at Athens, and of £25 to the School at Rome, have been renewed for a further period of three years. The School at Athens has now transferred its operations from Crete to Laconia, and Mr. Bosanquet is to be congratulated on the success which has already attended the excavations on the site of ancient Sparta. The Council wish to take this opportunity of offering their good wishes to Mr. R. M. Dawkins, who succeeds Mr. Bosanquet at Athens, and to Dr. Thomas Ashby, who has been recently elected Director by the Managing Committee of the School at Rome.

### The Library.

The urgent question of space in the Society's Library at Albemarle Street has been met for the present by fitting with bookshelves the smaller room, the acquisition of which was reported last year. The accommodation for readers in the Library proper is sensibly improved, and it has been possible to maintain the subject order of the books upon the shelves. The promised subject catalogue of the sixty-six bound volumes of tracts is now in use in the Library, and in it are incorporated the detailed contents of some twenty other volumes of opascula and in honorem works. By this means a quantity of valuable material, not otherwise easily accessible, is conveniently placed at the disposal of readers in the Library.

The records show that 372 visits were paid to the Library in the course of the year, as against 375 for the year 1904-5, and 338 for the year 1905-4. In addition to the books consulted in the Library, 415 volumes were borrowed, the figures for the preceding years being 401 and 312.

124 works (162 volumes) and 164 pamphlets have been added to the Library. The total accessions for 1904-5 were 122 in number. Owing to the unusual expenditure of last year the Council found it necessary to reduce its normal grant for the Library from £75 to £65, but fortunately the deficit was made good by a special donation of £10. Members are reminded that it is always within their power to further any department of the Society's work in which they are specially interested by donations of this kind. Among accessions of interest are:—The Archaeological Survey of India (20 volumes), presented by the Secretary of State for India; the large publication Aegina, das Heiligtum der Aphaia, by Furtwängler, Fiechter, and Thiersch; and Duruy's History of Greece (eight volumes).

The Council desire to express their thanks to H.M. Government, the Authorities of the University Presses at Oxford and Cambridge, the Trustees of the British Museum, the Trustees of the Hunterian Collection in the University of Glasgow, the Archaeological Institute of America, the University of California, and the Committee of the Archaeological Society of Athens, for valuable donations of books.

The following authors have presented copies of their works:—M. A. S. Arbanitopoulos, Professor Baldwin Brown, Mrs. E. Burton Brown, M. P. Champault, Mr. B. F. Fletcher, Rev. A. B. Grimaldi, Mr. J. R. Harris, Prof. Fr. Hauser, Mr. G. F. Hill, Mr. D. G. Hogarth, Mr. George Macdonald, Signor P. Orsi, Rev. J. B. Pearson, Herr R. Pohl, Herr J. Poppelreuter, Mr. C. S. Reid, Mr. R. Phené Spiers, and Professor U. von Wilamowitz-Möllendorff. Miscellaneous gifts of books have been received from Mr. A. E. Bernays, Sir John Evans, Mr. F. W. Hasluck, Mr. George Macmillan, Mr. H. B. Walters, and the Librarian. The following publishers have presented recent works:—Messrs. Appleton, Bertelsmann, Black, Colin, Dent, Duckworth, Gerland, Macmillan, Murray, Seeman, Sonnenschein, Stenp, Unwin, and Weidmann.

### The Collection of Negatives, Slides, and Photographs.

Since the time of the reconstruction of the Collection three years ago, the figures showing the work done in this department are as follows:—Sale of slides (1903-4) 512, (1904-5) 787, (1905-6) 1,247; sale of photographs for the same three years, 465, 366, 670; slides hired, 1,224, 3,053, and 2,941.

The statistics in this department show that it has fulfilled expectations by becoming a real and permanent part of the work of the Society. The expenses of maintenance and development are considerable, and it has been thought best to use any profits arising from sales or hire in extending and improving the materials now at the disposal of members. With the aid of a member of the Council, the Librarian has been able to make good progress with the series of slides on Greek Epigraphy. These will be catalogued in the second supplement, which is to appear in the next part of the JOURNAL.

The thanks of the Society are due to the following for donations or promises of negatives or prints:—Mr. H. D. Acland, Miss F. Awdry, Miss Bickersteth, Mr. Adam Brown, Dr. R. Caton, Mr. W. Catchpole, Mr. J. Christie, Rev. W. Compton, Miss Dalmahoy, Mr. G. A. Floyd, Mr. F. W. Hasluck, Mr. G. F. Hill, Mr. J. H. Hopkinson, Miss Hoste, Mr. C. R. A. Howden, Mr. L. James, Miss Lloyd, Mr. A. L. Pearce-Gould, Mr. Hugh M. Raven, Mr. S. G. Squire, Mr. P. A. Thomas, and the Librarian.

Special acknowledgment is due to the Argonaut Camera Club for their

kind co-operation in furthering the Society's work in this direction. It is believed that similar help will be forthcoming from members of Professor Ernest Gardner's party which visited Greek lands in the spring.

### Finance.

An examination of the Statement of Accounts for the Session will show a more satisfactory position than was the case in the Report for the preceding year. Instead of a deficit on the year's working, the Council is able to report a surplus of Income over Expenditure of £172, after writing off for depreciation the sum of £87 on the stocks of Executations at Phylakopi and the Facsimile of the Codex Venetus of Aristophanes. This improvement is partly accounted for by the fact that the cost of reprinting Vol. XXII of the JOURNAL, and of printing and distributing The History of the Society, made the expenses of the 1904-5 Session exceptionally heavy; and partly that, owing to the temporary suspension of the excavations at Cnossus, the grant of £100 to the Cretan Exploration Fund has not been called for this year. The cost of the two Parts of the JOURNAL is also considerably less than last year, £526 against £618. In addition to this, a saving has been effected on the cost of printing the JOURNAL and of its carriage to Members, while it is also satisfactory to note that the sales have produced £30 more than last year, mainly owing to the demand for back Volumes. The sales of the volume on Phylakopi, though not so large as last year, have produced nearly £28. The account for the Aristophanes Facsimile is less satisfactory, only three copies having been disposed of-two in America and one in England. The Lantern Slides Account shows that this department may be regarded as at least self-supporting, the figures showing a profit of £15 on the year's working.

The appeal on behalf of the Endowment Fund has resulted in the receipt of £305 for, to which has been added the bequest of £200 from the late Canon Adam Farrar received during the year. This, it should be noted, is the first legacy the Society has received, but the Council hope that, as time goes on, the generous precedent now set may be followed by other Members. They have invested £500 of this amount in the purchase of Calgary & Edmonton 4% Debentures, the interest on which will increase the Society's income from investments by about £18 annually. The Council hope that donations to this Fund from time to time will be made so that the above sum may be considerably augmented and permanently assist the work of the Society. It has already been suggested that special Donations to the Library, or to any other department of the Society's work, will always be welcome and will be turned to good account. A list of Subscribers to the Endowment Fund will be included in the second part of the JOURNAL for the current Year.

The Balance Sheet shows a present surplus of Assets over Liabilities of £172. The debts payable, which include all outstanding Liabilities to the end of the present financial year, stand at £293, a reduction of £100 on the amount at the corresponding period last year. The Cash in Hand at the present time (including £200 on Deposit Account at the Bank) amounts to £376 as against £200 last year. No estimate for the arrears of Subscriptions has been included in the Accounts owing to the uncertain nature of the probable receipts. This amount stands on May 31st at £136.

### Conclusion.

Reference has been made above to the loss the Society has sustained in the death of its President, Sir Richard Jebb. Among others lost by death during the year special mention should be made of the late Provost of Oriel, Dr. D. B. Monro, one of the oldest and most active of our Vice-Presidents, of Professor A. S. Wilkins, who had served on the Council; of Mr. G. L. Craik, who had filled the office of Auditor for some years; of the Earl of Morley, one of the fast decreasing band of original members; of Lord Lingen, Sir M. E. Grant Duff, Sir Clinton Dawkins, Mr. A. E. Haigh, Sir C. A. Cookson, Mr. Octavius Valieri, and Mr. J. A. Sharkey.

During the year 42 new members have been elected and 24 have been lost by death or resignation. The number of members at present on the list is 931, and there are in addition 170 subscribing Libraries and 40 honorary members.

On the whole the Society may look back on a successful year. Its financial position has been strengthened, and considering the increase in the entrance fee the number of accessions has been satisfactory. The Council trust that in the coming year every effort will be made by members to bring in new candidates in order that the Society may be in a position to meet the increasing claims made upon its resources for the promotion of Hellenic research in every department.

The Chairman then delivered an address, summarising the progress of archaeological research for the previous twelve months. Having alluded to the losses the Society had sustained during the the year by death, he selected two or three points in the year's work for special note. Among these were the excavations at Sparta conducted by the British School at Athens, and the reconstruction and restoration of ancient buildings in Greece, notably of the Erechtheion at Athens. In the sphere of publication the most important work that had appeared was the monumental book on the temple of Aphaia at Aegina by Prof. Furtwangler and his colleagues, Dr. Fiechter and Dr. Thiersch. The waste products of the earlier excavations had been made use of, and, by the combination of the newly found fragments with those already at Munich, an entirely novel arrangement of the pedimental sculptures had been attained. In this the stiff and mechanical

balance of figure against figure had been replaced by fighting groups on either side of the central figure of Athena. From this it would seem that the rigid symmetry, which for a century has passed for an essential characteristic of Aeginetan art, is due rather to Cockerell and Thorwaldsen than to the school of Onatas.

The Chairman concluded by moving the adoption of the Report, which

was seconded by Mr. E. Pears and carried unanimously.

The Hon. Secretary (Mr. George Macmillan) proposed that the President of the Society be elected for a term of five years and be not immediately eligible for re-election. The motion was seconded by Dr. Kenyon and carried unanimously.

Prof. Ernest Gardner proposed that the Council be authorised to admit to certain privileges of the Society without payment of entrance fee a class to be known as Student Associates. The Rev. G. C. Richards seconded

the motion, which was carried unanimously.

Mr. Cecil Smith then gave an illustrated communication on the arrangement of the Parthenon pediments. The so-called Victory of the eastern pediment should now be transferred to the western, as recently discovered documentry evidence proved that this torso was found at the western end of the Parthenon, and the figure appears in Carrey's drawings of the western gable. If, as seems likely, she is there to be identified as Eris, the pediments would be left without any representation of attendant Victories—a most unlikely contingency, whether we consider the place which Victory took in Greek mythology, or the tendency of the Greek artist to make his composition clear by the introduction of subsidiary figures like these, or the analogies supplied by painters of contemporary wases. Mr. Cecil Smith considered that the small figures of Victory did once exist in both the pediments. In the eastern gable a Victory would fill the empty apex admirably: in the western she might appear to emerge from the sacred olive, which would give her the necessary support.

The officers and members of Council as nominated were then declared unanimously elected or re-elected. Mr. E. Norman Gardiner and Mr. F. Marshall were elected to vacancies on the Council. In declaring the ballot Prof. Gardner acknowledged the honour conferred upon him by his election

as President of the Society.

The proceedings terminated with a vote of thanks to the auditors, Sir F. Pollock and Mr. A. J. Butler, moved by Mr. L. Dyer and carried unanimously.

A comparison with the receipts and expenditure of the last ten years is furnished by the following tables:—

### ANALYSIS OF RECEIPTS FOR THE YEARS ENDING :-

|                            | 21 May.<br>1897 | 183E | 34 May | 14 May, | if May | 1900 | 11 May.<br>1903 | 1909. | 37 May.<br>1985 | May-         |
|----------------------------|-----------------|------|--------|---------|--------|------|-----------------|-------|-----------------|--------------|
|                            | Ã.              | 4    | 2      | ä       | 4      | Z    | 33              | 2     | 4               | 4            |
| Subscriptions Current      | 017             | 613  | 598    | 634     | 636    | 628  | 646             | 672   | 700             | 789          |
| Arcoses                    | 34              | 13   | 18     | 9       | 30     | 13   | 13              | 255   | 76              | 90           |
| Life Compositions          | .45             | -00  | 31     | 63      | 78     | 78   | 94              | E36   | 94              | 94           |
| Libraries                  | 126             | 118  | 122    | 103:    | 179    | 185  | 202             | 147   | 154             | 168          |
| Entrance Fees              | =22             | -    | /im    | 333     | 49     | 57   | 50              | 100   | 133             | 103          |
| Dividends                  | 43              | 43   | 43     | 43      | 42     | 162  | 47.             | :43   | 49.             | :44          |
| Endowment Fund             |                 |      |        | 122     | =30    | -III | make            | 111   | 30              | 47.5         |
| Excavations at Phylakopi,  |                 |      |        | 115     |        | -    | -1              | -111  | 25,             | <u> 28</u> + |
| "Pacsimile Codex Venetus," |                 |      |        | =       |        | 000  | 527             | iii   | 937             | 37           |
| Lantern Slides Account     |                 | 777  | 77     | =       | 770    | =    | 8               | = 1   |                 | 13*          |
|                            | District        | - W. | Vac    | 700.00  | 2000   | 200  |                 | 1.202 | 1. 200          | 1,814        |
|                            | 804             | 787  | 813    | 945     | 990    | 998  | 4 194T          | 1,292 | 1,390           | 11014        |

<sup>\*</sup> Recetpin (in expense).

### ANALYSIS OF EXPENDITURE FOR THE YEARS ENDING .-

|  | 31. Muy,<br>1885. | n May | ar May. | nt May. | ly May, | re May. | H May | pr May. | gt May,<br>spon | i May |
|--|-------------------|-------|---------|---------|---------|---------|-------|---------|-----------------|-------|
|  | 16                | 4     | 36      | X       | 6       | 4       | W:    | Z       | 16:             | x     |
| Rent   | 80                | So    | 80      | 80      | 80      | 86      | Bo    | 80      | 58              | 98    |
| Insurance  | 15                | )5    | 15      | 15      | 25      | 15      | 15    | 16      | Y8:             | 13    |
| Salaries   | 52                | 50    | 60      | 60      | 50      | 60      | 69    | 80      | 165             | 176   |
| Library  | 94                | 93    | 61      | 73      | 74      | 82      | 89    | 50      | 100             | 155   |
| Cost of Catalogue  | -                 |       |         | -       | 390     | 1000    | 350   | 35      | 1993            | -1    |
| Sandry Printing, Postage, and<br>Stationery, etc.  | 29                | 45    | 32      | 38      | 61      | 41      | 72    | 137     | 147.            | 158   |
| Printing and Pastage, History of Society   |                   |       | 50      |         | 500     |         |       | 199     | 74.             | -0    |
| Printing and Postage, Pro-<br>ceedings at Assilversory   |                   |       |         | 222     | -       | -       | 10.00 | 121     | 10              | -51   |
| Lanteen Slides Account   |                   | 24    | 770     | 13      | 25)     | -17     | 35    | 1 =     | 51              |       |
| Photographs Account  |                   | 100   | 26      | *       | 15      | W.,     | 150   |         |                 | 000   |
| Cost of Journal (less mins)  | 346               | 539   | 536     | 390     | 382     | 357     | 454   | 511     | 511             | 356   |
| Cost of Journal, Remint of<br>Vol. XXIII.  |                   |       |         | 1       |         | iii     | aV.   |         | 122             |       |
| A COLUMN TO THE PARTY OF THE PA | 180               | 125   | 150     | 200     | 200     | 200     | 250   | 225     | 260             | 125   |
| "Facsimile of the Codes  | CHE               |       | 240     | -       |         |         | 2     | 1 5     |                 | 100   |
| Venetus of Aristophanos  |                   |       |         |         |         | - 69    | 210   | 30      | -               | 100   |
| " Excavarious at Phylakopi "   | 15                |       | =       |         | -       | -       | 150   | 140     | - XX            | -     |
| Commission and Postage per<br>Bank   |                   |       |         |         |         | 3       | 2     |         |                 |       |
| Depreciation of Smela of<br>Publications   |                   |       |         |         | -       | -       |       |         | 4#3             | 11994 |
|  | 796               | 948   | 960     | 890     | 916     | 865     | 1,432 | 14335   | 1,573           | 1,095 |

<sup>\*</sup> Expense (Institute).

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- 8802 Roberts, 7. Melos first period, on 600-550 a.v. Matrical inscription on column of
- 6603 Roberts, Sa, b, v, i. Melos; sepund period, ea. 550-500. Selection of temb inveriptions. T Cf. also, for form and position of the 2, 4518, coin of Posidonia.
- 0004 Roberts, St. m. Melos: third period, et. 490-115. Selection of tamb inscriptions.
- 6605 Roberts, 5q. 4. Melos: fourth period, shortly after the Palegonnesian war. Selection of tomb immigritions.
- 6606 Roberts, By. Gortyn: ca. 600. First discovered slab of the langest archaic marriation yet found. Louvre.
- 6607 Referts, 13. Ecomopalis ( = aucient Itames). Setrograde inser. over the lignre of a lish. This william Mus., Cambridge.
- 0008 Roberts, 25. Naxos: probably before 600 n.c. Inscribed on the archaic image dedicated at Dulos by Nisandra to Artemis.
  - Cf. also 3614, view of the status.
- 6009 Roberts, 27. Naxos: inscribed on the basis of an archaic colorens delibrated at Deles by the Naxians to Apollo 5.
  - Cf. also \$515, 4634, views of the upper half of the colours in rifu, and 5548, view of the basis in rifu.

#### ATTICA

- 6610 Roberts, 34. Oldest extant Attic inscription, probably seventh century. Retrograde, on a Dipyton Vasc.
  - Cr. also 6850, view of this Vaca. \* (Ath. Mitth. vi. pl. 8.)
- 6611 Roberts, 87, Ca. 600 n.c. Stole of Eminion. ¶
  6612 Roberts, 42 Signum marble, probably 000 575 n.c. Stale of Phanodism: the lower interription only is Attle. B.M.¶
- 6818 Roberts, 45. Salaminian ducres : 575-525 a.c., oldest extent Afric decree,
- 6614 Roberts, 56. Altar dedicated by Pisiarraine son of Hippins, 535-510 n.c. (Cf. Thuayo, et 54, where the altar is mentioned.)
- 6615 Roberts, 68. Fragment of a marbin base. Before 500 a.c.
- #616 Roberts, 66. List of the fallen in the Thatian War. 405-465 n.o.
- d617 Roberts, 69. Nointel markle, 460 s.c. (Roberts) or 459-8 s.c. (Roselt). Commemorates members of tribe of Erechtheis fallen in Egypt, stc. Louvre.
- 6618 Roberts, 70. Portion of tribute list, 446 s.c. Attic alphabet in its fatest settled form.
- 8819 Roberts, 71. Dedication of Aristocrates. Reform the Palopounesian war. (Cf. Aristoph., Aces, 125, 6. Thunyd, viii. 88, 92.)

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#### ARGOS.

- 4829 Roberts, 75. Brown beimet from Olympia communicating Argive victory over Corintle, Ca. 536 n. c. B.M.
- 6621 Roberts, St. Past of a basis of Parian murble belonging to a statue by Atoteo, from Olympia. Before 450 m.c. \$

#### CORINTH AND ITS COLONIES

- 8522 Roberts 85. Tomb sawription of Desinies, 600-550 a.c. Boustrophedon,
- 6623 Roberts, 000 40 144 Inscriptions on fragmentary reliefs from Carinffi. Berlin, T
  - Cf. also 985 for a general view of these tableta.
  - Cf. also for the form of the koppe, 5332, cain of Carinth and 5434, cain of Symmus-
- 8624 Roberts, 111. Helmet of Hiero of Syracuss. 174 m.c. B.M.: Commomorates victory over Etrascans off Cumae.

#### IONIAN ALPHABET.

- 6625a and b. Roberts, 130. Abou Symbol. Probably 594-589 s.c. (Psammeticium II.) rather than 654-617 n.c. (Parmm 1.) Inscriptions written by Greek murremaries on -tad rolosed figures.
- 0626 Roberts 133. Miletus. Bonstrophedon inscription on a lion. B.M. 1
- 6627 Roberts, 145, Halicarnassus. Ca. 453 n.c. The Lyglamna inscription. The Ionic alphabet as legelly adopted at Athers 403 u.s. B.M.

### WESTERN GROUP.

- Roberts, 169, 5 pc. 105, 117 and 125, 188, 109 Eul. over. Selection from 400 leaders plates found 6828 near Styra.
- 6629 Roberts, 236, A. L. Boentis, \*
- Roberts, 232. Ocanthea. Temp. Polopomesian war. Bronze tablet containing treaty etrists. between Occurbes and Chaleion. B.M.
- 6631 Roberts, 248 Laconia. Stele of Clankatia. Ath. Nat. Mus. T
- 8632 Roberts, 255. Lacoula Delivation of Pleistindas. Sparts Mus. Ca. 500 m.c. 1
- 6633a and 6 Roberts, 257. Laconia, Ca. 475-450 n.c. Brunze plata from Tegou recording a deposit of munoy by Xonthias.
- 6634 Roberts, 259. Languin Ca. 479 n.c. Surpent column dedicated after Platace at Delphi : now in Constantinople.
  - Cf. also 5124 Basis of the tripod in rifu at Delphi...
    - 6652 Rushwatlan of the tripod. (Jakel, L p. 189.)
    - 3335 View of Hippodrome at Constantinople showing serpout column OF REAL PROPERTY.
- 6635 Roberts, 264. Lacouis. Ca. 400 n.c. Stele of Damonou. Sports Mus. 4
  6635 Roberts, 263 Lacouis. Geronthrus. Ca. 418 n.c. un de wolding inscription referring to the buttle of Mantinera.
- Roberts, 207. Laconia. Ca. 403-398 n.c. Part of a degree recording restoration of 6637 liberty to Dellims by Sparts after Aegospotumi. .
- Roberts, 280. Amedia: Murble base found at Olympia dedicated by Cynnecus. MARK
- Roberta, 285. Arcailia. 265-363 n.c. Bronze plate from Olympia dating probably 6039 from the time when the Armelians and Piestans jointly adminstered the affairs of the temple of Zews."
- Roberta, 291. Elia. Ca. 500 n.c. Bronzo piate trum Olympia recording 100 years 11660 alliance between Home and Herneaus. B.M. 7
- Roberts, 297. Elis. Bronte plate from Olympia mortdling affiance of lifty years between 6641 two otherwise unknown communities, the Anacti and Metaput's
- 0642 Roberts, 300. Elin. Brouze plate from Olympin.\*
  0643. Roberts, 302. Achien and colonies. Ca. 600 a.c. Sandstone block from Metapoutum. Boustrophedon (partially). 1

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#### ABECEDARIA.

- 6644 Roberts, p. 16. Formello : on a wase formit in a touch at Formallo, near Veil. Greek alphabet (given twice) of western group and Chalcidian origin : also on Etruscon inscription.
- 6645 Roberts, p. 17. Caure: on a wase found in a total at Carre (Ceryetri). Grack alphabet of western group and Chalcidian origin, ?
- 6646 Roberts, p. 18. Collic printed on the wall of a tomb at Colle. Only desipterable as far sa C. Western group and Chalcidlin origin.
- data Roberts, p. 19. Covintle painted on pottery fragment. Bonstropholon. E.T only preserved.

## MISCELLANEA.

- 5385. The vine as the origin of characteristic focus in Louis architecture (from a akench by School).
- 6522 Acouthus growth (Julieb. vi. p. 122, fig. 4.)
- 6535 Kerner and Olivier, Sat. Hist. vi. p. 772, fig. 1.4.)
- 6587 Gold distant; gold band with central knot. 15.M.
- 4588 Intaglies in gold and silver. It.M.
- 7563 Jewellery from Praeson.
- 7561 Jewelleyy from Process.
- 7289 Skull ornamented with spirallform discs, as exercised in Praisco.
- 6584 Bronce belimit from Olympia. B.M.
- 6586 Archaic ivory plaques, B.M.
- 8184 Ostinken with name of Themistocles.

#### NOTICE TO CONTRIBUTORS.

The Conneil of the Hellenic Society having decided that it is desirable for a common system of transliteration of Greek words to be adopted in the Journal of Hellenic Studies, the following scheme has been drawn up by the Acting Editorial Committee in conjunction with the Consultative Editorial Committee, and has received the approval of the Council.

In consideration of the literary traditions of English scholarship, the scheme is of the nature of a compromise, and in most cases considerable

latitude of usage is to be allowed.

(1) All Greek proper names should be transliterated into the Latin alphabet according to the practice of educated Romans of the Augustan age. Thus ε should be represented by ε, the vowels and diplothongs ν, αε, οε, ον by γ, σε, οε, and α respectively, final -ος and -ον by -us and -ow, and -ρος by -er.

But in the case of the diphthong at it is felt that at is more suitable than a or i, although in names like Landica, Alexandria, where they are consecrated by usage, a or i should be preserved, also words ending in -cov must be represented by -cov.

A certain amount of discretion must be allowed in using the a terminations, especially where the Latin usage uself varies or prefers the a form, as Delos. Similarly Latin usage should be followed as far as possible in -ε and -α terminations, e.g., Priese, Smyraa. In some of the more obscure names ending in -ρos, as Λέαγρος, -ετ should be avoided, as likely to lead to confusion. The Greek form -εm is to be preferred to -α for names like Dion, Hieron, except in a name so common as Apollo, where it would be pedantic.

Names which have acquired a definite English form, such as Corinth, Athens, should of course not be otherwise represented, It is hardly necessary to point out that forms like Herrules, Merrury, Minerca, should not be used for Herneles, Hermes and

Athena

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- (2) Although names of the gods should be transliterated in the same way as other proper names, names of personifications and epithets such as Nike, Homonoia, Hyakinthios, should fall under § 4.
- (3) In no case should accents, especially the circumflex, be written over vowels to show quantity.
- (4) In the case of Greek words other than proper names, used as names of personifications or technical terms, the Greek form should be transliterated letter for letter, k being used for κ, ch for χ, but y and u being substituted for v and ov, which are misleading in English, e.g., Nike, apoxyonenos diadionenos, rhyton.
  - This rule should not be rigidly enforced in the case of Greek words in common English use, such as acgis, symposium. It is also necessary to preserve the use of on for on in a certain number of words in which it has become almost universal, such as boate, gerousia.
- (5) The Acting Editorial Committee are authorised to correct all MSS, and proofs in accordance with this scheme, except in the case of a special protest from a contributor. All contributors, therefore, who object on principle to the system approved by the Conneil, are requested to inform the Editors of the fact when forwarding contributions to the Journal.

In addition to the above system of transliteration, contributors to the Journal of Hellenic Studies are requested, so far as possible, to adhere to the following conventions:—

## Quotations from Ancient and Modern Authorities.

Names of authors should not be underlined; titles of books, articles, periodicals or other collective publications should be underlined (for italies). If the title of an article is quoted as well as the publication in which it is contained, the latter should be bracketed. Thus:

Six, Jahrb. xviii. 1903, p. 34,

or-

Six, Protogenes (Johrb. xviii 1903), p. 34.

But as a rule the shorter form of citation is to be preferred.

The number of the edition, when necessary, should be undicated by a small figure above the line; r.g. Dittenb. Syll. 123.

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### Titles of Periodical and Collectics Publications.

The following abbreviations are suggested, as already in more or less general use. In other cases no abbreviation which is not readily identified should be employed.

A.-E.M. = Archiologisch-epigraphische Mittheilungen.

Ann. d. L = Annali dall' Instituto.

Arch, Ann - Architologischer Anzeiger (Beiblatt sum Jahrbuch).

Arch Zeit, = Architologiuche Zeitung.

Ath. Mitth - Mittheilungen des Deutschen Arch. Inst., Athenische Abtheilung.

Baumeister-Baumeister, Denkmäler des klassischen Altertums.

B.C.H. - Balletin de Correspondance Hellénique

Berl. Vas. = Furtwangler, Beschreibung der Vusensammlung zu Berlin.

B. M. Broans = British Museum Catalogue of Broanes.

B.M.C = British Museum Catalogue of Greek Coim-

B.M. Inace, - Greek Inscriptions in the British Museum,

B. M. Fascs - British Museum Catalogue of Vases, 1893, etc.

B.S.A. = Annual of the British School at Athens.

Ball d. L = Bullettino dell' Instituto.

Basalt = Busalt, Griechische Geschichte.

C.I.G. - Corpus Inscriptionum Grae-scum.

C.L.L. = Corpus Inscriptionum Latinarum.

CI. Hes .= Classical Review

C.R. Acad. Inser, = Comptes Readus de l'Academie des Inscriptions.

Dar, Sagl. = Daremberg-Saglio, Dictionnaire des Antiquites.

Dittenb. O.G. I.= Dittenberger, Orientis Grasci Inscriptimes Selectas.

Dittent: Syll. = Dittenberger, Syllogo Inscriptionum Gracearum.

Έφ. 'Αρχ. = Εφημερίε 'Αρχαιολογική.

C.D.I. = Collitz, Sammlung der Griechischen Dialekt-Inschriften.

Gorb, A.V. - Gerhard, Asserlesone Vascubilder.

G.G.A. = Obttingische Gelehrte Anzeigen.

Head, H.N. = Head, Historia Numorum.

I.G. = Inscriptiones Graccae.

I.G.A. - Rohl, Inscriptiones Graecae anniquissimae.

Jahrb. - Jahrbuch des Deutschen Archäologischen Instituts.

Juhrenk = Jahreshefte des Oesterreichischen Archäologischen Institutes.

J. H.S. - Journal of Hellenie Studies.

Lo Bas-Wadd = Le Bas-Waddington, Voyage Archéologique.

Michel-Michel, Rocueil d'Inscriptions greoques

Mon. d. L = Monumenti dell' Instituto.

Mittler-Wins - Müller-Winssler, Denkmaler der alten Kunst.

Mus. Marbles - Collection of Ancient Marbles in the British Museum.

Neue Jahrb. M. Alt. - Noue Jahrbücher für das klassische Albertum.

Neas Jahrh. Phil. - Neas Jahrbucher fur Philalogie.

L.G. L. = Inser. Affine anno En adia yetnationes.

.. II. = .. .. actatia quas cut inter Eucl. ann. et Augusti Ismpere.

III. = .. astatis Romanae.

IV. = .. Argolidia

WIL = ... Megandis et Bostise. IX. = ... Graciae Septentrionalia.

XII. = insul Marie Asgest practer Delum.

at XIV. . . Italian en Sicilias.

The attention of contributors is called to the fact that the titles of the volumes of the second issue of the Corpus of Greek Inscriptions, published by the Pressian Academy, have now been changed, as follows:—

## Dexxiv

Niese - Niese, Geschichte der griechischen u. makedonischen Staaten.

Num. Chr. - Numironalle Chronicle.

Num Zeit = Numlematische Zeitschrift.

Pauly-Wissowa - Pauly-Wissowa, Real-Encyclopadie der classischen Altertumewissen schaft.

Philot. = Philologus.

Ramsay, C.B. - Ramsay, Cities and Bishoperes of Phrygis-

Her Arch - Bevus Archeologique.

Rev. Et Gr. - Revue des Etudes Greeques.

Ree: Nom. = Ravue Numberestique

Ren. Philot. = Revus de Philologie.

Rh. Mus. = Rheinisches Museum.

Kam, Mitth. = Mittheilungen des Deutsehen Archäologischen Instituts, Rominche Abtheil

Roscher:= Roscher, Lexicon der Mythologie.

T.A.M. - Tituli Asine Minoria.

Z. f. N.=Zeitschrift für Numismatik.

## Transliteration of Inscriptions.

- [ ] Square brackets to indicate additions, i.e. a lacum filled by conjecture,
- ( ) Curved brackets to indicate alterations, i.e. (1) the resolution of an abbreviation or symbol; (2) letters misrepresented by the engraver; (3) letters wrongly omitted by the engraver; (4) mistakes of the copyest.

< > Angular brackets to indicate omissions, i.e. to enclose superfluous letters appearing on the original

. . Dots to represent an unfilled become when the exact number of missing letters is known.

- - - Dashes for the same purpose, when the number of missing letters is not known.

Uncertain letters should have dots under them.

Where the original has iota adscript, it should be reproduced in that form; otherwise it should be supplied as subscript.

The aspirate, if it appears in the original, should be represented by a special sign, 1.

# Quotations from MSS and Literary Tests.

The same conventions should be employed for this purpose as for inscriptions, with the following important exceptions :-

( ) Curved brackets to indicate only the resolution of an abbreviation or symbol.

[[ 1] Double square brackets to enclose superfluons letters appearing on the

< > Angular brackets to enclose letters supplying an omission in the original.

The Editors desire to impress upon contributors the necessity of clearly and accurately indicating accents and breathings, as the neglect of this precantion adds very considerably to the cost of production of the Journal

#### STATUE OF A BOY LEANING ON A PILLAR.

## [PLATES I., II.]

This statue, which was in the possession of Dr. Philip Nelson of Liverpool, has recently become the property of the Bavarian Verein der Kunstfreunde' who allow the charming work to be exhibited on loan in the Munich Glyptothek.

That the original, of which this statue is a copy, was famous and popular in antiquity is amply proved by the large number of extant replicas. The present example brings up to twenty the number of authenticated replicas given in the English edition of Furtwangler's 'Masterpieces' (p. 272, note 4) and the list could doubtless easily be increased if the eleven replicas in Rome (Matz-Duhn, Antike Bildwerke in Rom, vol. i. pp. 275-278) and the thirty-seven replicas enumerated by M. Salomon Reinach in his Repertoirs de la Statuaire (Index, &c. 'Narcissus') could be thoroughly examined and sifted. This is a task which I had proposed to myself in view of this paper, but which I have as yet been unable to carry out.

It is strange that no other instance of the type appears to exist in the rich English private collections, if we except the entirely restored torso, with the movements reversed, at Rossie Priory (Michaelis, Ancient Marbles in Great Britain, Rossie, No. 1) and the more than doubtful example at Holkham (Michaelis, Holkham 20, Reinsch, Répertoirs i. p. 180, 1) which has been turned into a Meleager.

The publication of this statue was courteously offered to me by the English owner in May of last year, before it passed to Munich. The editors, however, having prepared and lettered the plates for this number of their Journal, cannot well withdraw or postpone them. At present, therefore, I must be content to contribute a few words of description based upon the photographs, and upon observations kindly sent to me by the former owner, though I shall probably seek to resume the subject when I have examined the replicas outside the list in the 'Masterpieces.' I may add that this 'Boy' is only one item among a number of notes upon 'inedited works of

<sup>3</sup> See a note on p. 296 of the Burlington Magazine for January 1968.

antique art in English private collections, the publication of which, however, other more urgent work has obliged me to postpone.

The restorations in our statue are very numerous and apparently not altogether happy. The nose, the left arm from the elbow, the legs from the knees, the tree trunk and the plinth are all modern. Moreover, the left arm is wrongly restored with the hand turned outward, towards the spectator. instead of backward with the paim resting on the supporting pillar. The correct movement and pose of this arm are well known from the beautiful replica found in the Nile Delta and purchased by the Louvre in 1894. (published by E. Michon in Monuments Piot, i. Pl. xvii.; text pp. 115-128). The head of our Nelson-Munich replica has been badly replaced, owing to the markedly clumsy restoration of the neck; the pose should be corrected, again by comparison with the Louvre example. But in itself the head, save for the restored nose, seems to reproduce with simplicity and sincerity the lines of a distinguished original of the latter half of the lifth century B.C. Furtwängler, who first brought the type into prominence in his 'Masterpieces' (pp. 272-275; cf. also his article in Ball, d. I. 1877, p. 158), places the lost original within a cycle of Argive creations, immediately influenced by Polykleitos. In fact from the pose of the feet he links the statue to a group of works more or less closely connected with the 'Pythokies,' the basis of which is extant at Olympia. Furtwangler shews, however, that the type, though Polykleitan in its essence, is not uninfluenced by Attic models (ib. p. 274). On the other hand, M. Michon, to whom we owe an excellent critical notice of the Louvre statue, inclines rather to the theory of an Attic origin. The view taken by Dr. Ameling in his descriptions of the replicas in the Colomna Gallery (Arndt-Amelung-Bruckmann, Einzelanfnahmen, No. 1139) and in the Museo Chiaramonti (Amelung, Skulpturen des Vaticanischen Museums, vol. i. No. 536, Plate 70) is that the type is the direct product of combined Attic and Argive influence with preponderance of the Attic.

In the Louvre and apparently also in the Munich figures, the broad frontal construction is especially interesting, and proves at once the comparatively early period of the original. The forms are soft, yet the absence of any roundness of modelling is conspicuous. This flatness of the planes—always a concomitant of frontal construction—gives effect to the beautiful, curving silhouette. The design is severely self-contained, the silhouette finding its starting and meeting points at what affords the key, so to speak, to the whole composition, the supporting palm of the left hand. The chiastic construction is peculiarly emphasized, the weight on the left hand being balanced by the weight on the right leg, and the bend of the right elbow by the bend of the left knee.

The marked inclination of the head, the melancholy satisfy of the expression, the weariness of body suggested by the pose of the left hand, all seem carefully thought out in order to express some psychological state

<sup>\*</sup> Until I have examined more suplicas, I do two versions of the 'Nerciesus,' the one more not feel competent on Dr. Amelung's theory of Polykleitan, the other more Attic in character,

peculiar to the subject represented. As M. Michon subtly remarks (Mon-Piot, i. p. 125) son laisser aller va au delà du simple repos physique et s'stend du corps a l'esprit.' In spite too of the sweetness of the forms of the face, there is yet a sombreness of expression to which we are unaccustomed before the Roman period and the portraits of Antinous.3 This attempt to attain to spiritual individuality gives the statue an almost unique place among the more generalized creations of the period to which it belongs technically as well as structurally, and efforts to discover the name of the being represented have been plentiful, although, owing to lack of corroborative evidence, none brings definite conviction. Furtwangler disposes of the name of Narcissus by which the type has long been known, and of his own earlier interpretation of Hyacinthus, and at the same time he wishes to substitute that of Adonia. The present writer inclines to the theory, already many times put forward and rejected, that the figure has a sepulchral intention, that it commemorates some young athlete snatched away perhaps in the moment of success and victory. The so-called 'Adonis' has been brought by Furtwangler into relation with the earlier versions of the 'wearied Herakles' leaning forward on his club; nor must it be forgotten that this type of Herakles was shewn by Mr. A. S. Murray to have been transformed into a sepulchral figure in the beautiful Athenian stelle acquired a few years ago for the British Museum (J.H.S. xxii, 1902, Plate L).

The dimensions of the statue, which is about two-thirds life size, are, I am informed, identical with those of the Louvre replica (Michon, p. 116), the

total height being 1-125 metre.

EUGENIE STRONG.

The inclandidy of the expression has been more than once compared with that of the "Wounded Amazon" of Polyklenes. But if

the two works are committeed side for side, a deeper and more individual emotion will be felt to permade the 'Narcissus' thun the 'Amazon.'

#### THE PANKRATION AND WRESTLING.

Ш

## [PLATES III.-V.]

A .- The Nature of the Pankration.

THE combination of boxing and wrestling known as the pankration was a development of the primitive rough and tumble. To get his opponent down and by throttling, pummelling, biting, kicking, to reduce him to submission is the natural instinct of the savage or the child. But this rough and tumble is not suitable for an athletic competition; it is too dangerous and too undisciplined. To the early Greeks, athletics were the recreation of a warrior class, they were not the serious business of life or even a profession, and in an age of real warfare the warrior's life was too valuable to be endangered for sport. Moreover, without some form of law athletic competitions are impossible, and in the growth of law the simpler precedes the more complex Hence it was only natural that particular forms of fighting, such as boxing and wrestling, should be systematized first, and so made suitable for competitions before any attempt was made to reduce to law the more complicated rough and tumble of which they both formed parts. Wrestling and boxing were known to Homer, but not the pankration, and Greek tradition was following the natural order of evolution in assigning the introduction at Olympia of wrestling to the 18th, of boxing to the 23rd, and of the pankration to the 33rd Olympiad.

We have already seen that the essential difference between wrestling and the pankration is that in the former the object is to throw an opponent, in the latter the struggle goes on until one of the two pankratiasts acknowledges his defeat (ἀπαγορεύει). The Spartans, we are told, were therefore forbidden to compete either in the pankration or in boxing, because it was considered disgraceful for a Spartan to acknowledge defeat. Another reason perhaps for the prohibition was that at Sparta the primitive rough and tumble unrestricted by any laws, and unrefined by science was practised as a mere test of endurance and as a training for warfare, and it was felt instinctively that such an exhibition of brute force was not fit for an athletic competition. But at Olympia and all the great games, the pankration was subject to the rôpos évayôvios, and was, at all events in its best period, a contest no less of skill than of strength.

## B .- Laws of the Pankration.

The fullest account which we possess of the pankration is in Philostratus' picture of the death of Arrhichion. After vividly describing the scene and the enthusiasm and excitement of the spectators be continues: οἱ παγκρατιάζοντες κεκινουνουμένη προσχρώνται τῆ πάλη, δεῖ γὰρ αὐτοῖς ὑπτιασμ ν τε οἱ μή εἰσιν ἀσφαλεῖς τῷ παλαίοντι καὶ συμπλοκῶν ἐν αἰς περιγίγνεσθαι χρὴ οἰον πίπτοντα, δεῖ δὲ αὐτοῖς καὶ τέχνης ἔς το άλλοτε άλλως ἄγχειν, οἱ δὲ αὐτοὶ καὶ σφυρῷ προσπαλαίονσι καὶ τήν χεῖρα στρεβλοῦσι προσόντος τοῦ παίειν καὶ ἐνάλλεσθαι, ταυτὶ γὰρ τοῦ παγκρατιάζειν ἔργα πλήν τοῦ δάκνειν καὶ ὀρύττειν. Λακεδαιμόνιοι μέν οὖν καὶ ταῦτα νομίζουσιν ἀπογυμνάζοντες, οἰμαι, ἐαυτούς ἐς τὰς μάχας, Ἡλεῖοι δὲ καὶ οἱ ἀγῶνες ταυτὶ μέν ὑφαιροῦσι,

το δε άγγειν έπαινούσιν.

It would be difficult to give a more concise description of the pankration. Wrestling, hitting, and kicking are employed: the wrestling is κεκινδυνευμένη; victory is usually secured by ayxen; Saevess and Sporress alone are prohibited. The details of the description will be considered later; for the present we must confine our attention to the two things prohibited. Δάκνειν explains itself, and has been illustrated in my last article. 'Ορύττειε is more difficult. Liddell and Scott translate it to dig or give a heavy The translation is pointless; we cannot suppose that in such a contest only light blows were allowed: one can we distinguish waters and ορύττειν as striking with an open hand and with the fist respectively; for the Panathenaic vases prove conclusively that striking with the fist was allowed. The clue to the meaning of aporter will be found in a closer examination of two other passages in which it occurs, Aristophanes, Acrs 442 and Pax 809. In both passages there is an obvious reference to the rules and methods of the pankration; in the Accs indeed the reference is to the very prohibition quoted by Philostratus. In both passages operters is used in sense obstacno, and the adjoining words give us the true meaning. It means to injure an opponent by digging the hand or fingers into certain tender parts of an opponent's body. I should be inclined to give it a general meaning so as to include forcing the fingers into an opponent's eye.

News Therein of the pankration (News, iii 29); ep. Islam, v. 60.

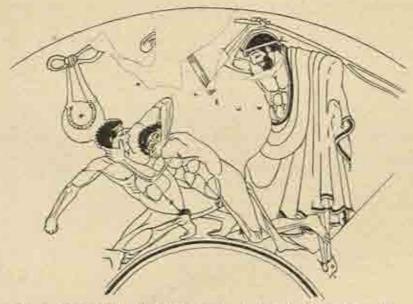
<sup>\*</sup> Let cit.

Vol. xxv. p. 272. Cp. also Phil. Im. c. 6, 12,
 description of the sports of Erotes, and Lacian, Domos. 49 carsungebras val maps via signs fraydrior Sansorras.

Pindar, for example, speaks of the supers-

<sup>\*</sup> Cf. vol. Err. p. 15, n. 3. The word are Externally is used exclusively in an erotic sense, and them is no evidence for its use as a wrestling term.

A kylix in the B.M. E 78 (Fig. 1) gives us a vivid picture of such a scene. One of the pankratiasts has inserted his thumb into his opponent's eye as if to gouge it out, and the official is hastening up with his rod uplifted to interfere and punish such an act of foul play. Since I wrote the above, The Rev. C. W. Townsend has pointed out to me that this extension of the meaning of δρύττειν is confirmed by the next remark of Peisthetairus in the Aves, τὸφθαλμὸ λόγω, and he makes the interesting suggestion that δρύττειν, besides its obvious meaning in the passage, means 'to scratch.' In view of



Fro. 1.—R.-F. Kriax, B.M. E 78. (After Hartwig, Meinterschaf, Fig. 53.)

this I should be inclined to see another example of operator in Fig. 3 where one pankratiast digs his fingers into the other's mouth, and the official again is interfering.

## C.—The Standing Pankration.

The pankration may be divided into two parts τὸ ἄνω παγκράτιον and τὸ κάτω παγκράτιον. In the former the opponents endeavour to throw each other to the ground employing not only all the tricks of ὁρθὴ πάλη but also hitting and kicking.

The wrestling is described as κεκινδυνευμένη, an epithet appropriate to such throws as the flying mare, and also to the various legholds which though too dangerous for όρθη πάλη were freely used in the punkration. Thus Ameharsis in Lucian's dialogue exclaims καὶ ῆν ἰδοὺ ἀράμενος ἐκεῖνος τὸν

<sup>\*</sup> v. J.H.S. vol. xxv. pp. 23, 268.

<sup>\*</sup> v. 65. pp. 26-29, 283-286, Figs. 19-23, legholds are collected.

when various illustrations of and references to leighblik are collected

έτερου έκ τοῦν σκέλουν αφήκεν εἰς τὰ έδαφος. An illustration of these words may perhaps be seen in a much mutilated group on a kylix from the Bibliotheque Nationale published by Hartwig." One wrestler is kneeling on his left knee and having seized his opponent between the legs lifts him up and bends forward as if to throw him to the ground. All that we can see of his opponent is his right foot hanging over the other's back. Another good illustration of a leghold is afforded by a gem in the British Museum (Fig. 4), representing a wrestler with his head 'in chancery' seizing his opponent by the thigh. In this case we cannot say which of the two is the attacker, and whether the leghold is employed in attack or defence; and the same is true of the type represented on the coins of Aspendus,10 where one wrestler has caught his opponent's leg and appears to be tilting him backwards. A further variety described by Philostratus perhaps belongs rather to ground wrestling. but may be mentioned here for convenience. Speaking of the short, thickset type of pankratiast, of έν μιαρώ μεγάλοι, he ascribes their success to their skill in wrestling. They are, he says, quick and active and able to extricate themselves from the most hopeless grips, έπιστηριζομένοι τή κεφαλή καθάπερ Barer. I know of no representation of this scheme in Greek art, but it is depicted clearly on the tombs of Beni-Hassan and in the present day it is no uncommon sight to see a wrestler picked up by his legs supporting himself on his hands and head,

Again the wrestling of the pankration is κεκινδινευμένη because the pankratiast employs such means as στρεβλούν and άγχειν. These tricks belong principally to the later ground wrestling, but they are also possible in the standing pankration. As an example of στρεβλούν we have the Sieyonian pankratiast Sostratus, who won his victories by breaking his opponent's lingers, or Arrhichion, who even at the moment when he was being strangled to death forced his adversary to succumb by twisting his ankle out of its socket. Again in Philostratus' description of the wrestling Erotes, one of them tries to break the other's hold στρεβλώσας ένα τών δακτύλων. In the Uffizi wrestling group the upper wrestler is twisting and forcing his opponent's arm across his back, and the same motive is represented on one of the groups of the frieze of Lysicrates' monument. At first sight we are apt to condemn such practices as barbarous and unsportsmanlike, but the principle of στρεβλούν or incapacitating an opponent by twisting any limb has been reduced to a science in Japanese wrestling. The same may be said of ayyear or strangling, a method of finishing the contest much approved by the Eleans. The Tusculan Mosnic, 12 to which I have already referred, shows us a wrestler who has leapt on to his opponent's back while the latter is still standing, and with his arms and legs twined round him tries to strangle him, a manouvre also described by Philostratus in his account of the wrestling

<sup>\*</sup> Maintersolval, xvi. Other groups from the same ruse are referred to, vol. xxv. p. 268, Fig. 5. There is no ground for Hartwig's suggestion that the scene represents browners(for, a term which will be discussed below.

<sup>18</sup> Vol. xxv. p. 271, Fig. 95.

 <sup>11</sup> Oym. 36. Cf. Terence, Adelphi III.
 12 Paus. vi. 4, 2; Phil. Inc. ii. 6, L 6.

<sup>19</sup> How, d. J. vi., vii. 82; Schreiber, Atlas,

Erotes. But though strangling played its part in the standing pankration or even in pure wrestling, the struggle on the ground offered far more facilities for it and so the pankratiant required τέχνη εἰς τὸ ἄλλοτε ἄλλως.

άγχειν.

The use of hitting and kicking in the pankration can be best illustrated from the Panathenaic vases. Two of the latter figured in the Monumenti 14 represent a wrestler who has seized his opponent's leg and is in the act of tilting him backwards. The vases have disappeared but their evidence is confirmed by the similar type on the Aspendus coins, while a curious parallel is again afforded by one of the Beni-Hassan groups. In the latter, however, and on the coins the wrestler standing on one leg tries to save himself by seizing his opponent's shoulders, on the vases he draws back his hand as though to strike him. I have before suggested that we have here a combination of kicking and hitting, and this suggestion is supported by two later representations in which the motive is unmistakeable, another group from the Tasculan Mosaic and a relief in the Louvre represent-



Fig. 2 -R.-F. Kynra. Bentix, (After Hartwig, Fig. 12.)

ing the Genii of Sport, To these I should add the Lamberg amphora published in Vol. I. of this Journal, Pl. VI which seems to represent the same combination of hitting and kicking. Somewhat later moments than that on the Lamberg amphora are represented by a Panathenaic amphora in the Louvre (F 278) where the right hand pankratiast is in the act of being knocked down by a blow on the face, and by the fragment of a Berlin kylix (Fig. 2) where he has actually fallen. This method of attack might be fitly described as ἐνάλλεσθαι.

In all the cases mentioned above we may notice that the fist is elenched, a fact which conclusively disproves the assumption that hitting with the fist was not allowed in the pankration. The only authority for such a statement is to be found in a single passage of Galen. \*\* which at the most

<sup>18</sup> De Mote Muse. 1. 8 el δε ξκαιτος τῶν δακτάλην κάμπτη, τὸ αχῆμα τῶς χειρὸς γένουν μάλιστα τῶς ἐν παγκρατίο προτετικόσε κὸτῆν δμοών. Cl. injua, § F.

<sup>14</sup> Mon. of J. 1, 21, 100 and 29, 86,

Beproduced in Rawlinson's Herodetus, vol. 10, n. 326.

<sup>24</sup> Vol. var. p. 28.

if Reimall, Repertaire, L 75.

proves that the pankratiast did sometimes use his open hand, and certainly does not exclude the fist.

A second Panathemic type is represented by two vases in the British Museum B 604, 610 (Pls. III., IV.). Here we have a conventional representation of boxing and wrestling. It is conventional because such attitudes can surely never have occurred in actual contest except with the most clumsy of performers, and can only be explained as an attempt on the part of the artist to combine in a single scene boxing and wrestling. The right hand pankratiast rushes in with his head down and allows his opponent to catch his throat in the bend of his left arm and pummed him with his right hand. In B 610 the latter lifts his fist to strike, in 604 the intention is not so clear; but in both the noticeable feature is the way in which his opponent has put himself into and remains in so hopeless a position.

#### D .- The Pankration on the Ground,

The struggle on the ground described variously as τὸ κάτω παγκράτιον, κύλισις, ἀλίνδησις must have been the really decisive part of the pankration. It was probably as long and as complicated as it is in the present day.

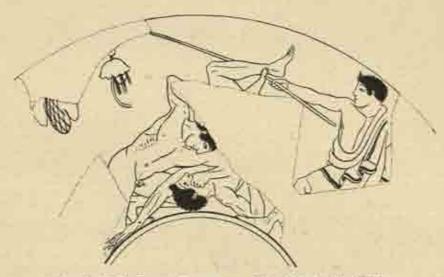


Fig. 8 .- R. F. KYLLY. BALTIMORE. (After Hartwig, Pl. LXIV.)

the combatants sometimes sprawling at full length, sometimes on their knees, sometimes one on the top of the other as in the Uffizi group. It is this part of the pankration to which Plato objects and which leads him to exclude it from his ideal state as useless for military training because it did not teach men to keep on their feet. We may conjecture from this objection that in

<sup>10</sup> Log. 796, 834. Cf. Theodritus xxiv. 112, 5 τ' είε γαϊσε προπέσοντες | παμμέχοι εξεύμοντο σοφίσματο σύμφορα τέχτο.

Plato's time the pankratiast like the modern so-called Graeco-Roman wrestler was apt to neglect the preliminary contest and to go down on the ground at once. This grovelling would appear to have been a sign of the decay of these antagonistic sports which we know had set in before Plato's time; it must have been unknown to Pindar, who emphasizes the importance of boxing in the pankration.

It is generally stated that hitting was not allowed when the opponents were on the ground. That it was not of general use is true because it was less effective than other means of ending the contest; but the gratuitous statement that it was not allowed is based solely on our modern idea of not bitting a man when he is down, and it is disproved by the evidence of the vases. In the Baltimore kylix (Fig. 3) a pankratiast having thrown his opponent over his head kneels over him holding him down with his left hand and lifting his right to strike. The official interferes apparently



FIG. 4.-WRESTLING GROUPS ON GRAECO-ROMAN GRMS IN B.M.

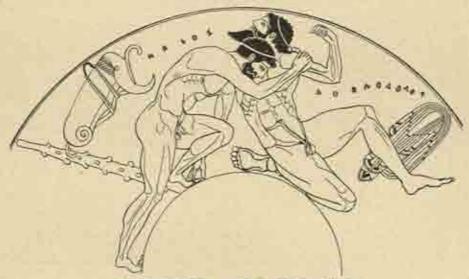
to stop the contest, but if any breach of the rules is intended, it consists probably not in hitting an opponent who is down, but in forcing the hand into his mouth, which may well come under the head of ôρῦττειν. The same type occurs, however, on other vases where the one opponent is either fallen or falling (Fig. 2), and especially on some of the Antaeus vases, the motives of which are all taken from the palaestra. We may notice particularly that the moment illustrated is precisely that when hitting would be most effective, when Antaeus has just fallen or is in the act of falling (Pl. V). The Uffizi group is useless as evidence owing to the uncertainty as to the restoration of the right arm of the upper figure.

Ground wrestling is seldom represented in art except in certain

B.M. Vasce B 196, 322; Annali, 1878 n; Millingen, Pl. XXXI; Klein, Exploration, p. 122, c. f. k. D.

mythological types: it did not lend itself readily to palaestra scenes in which most of the figures are upright. We learn from Lucian's Asinus, that its various movements were taught systematically in the same way as those of δρθή πάλη. He mentions particularly τὰ ἀπὰ γονάτων. Groups of this knealing type though not occurring on the vases are frequent on later gems, being particularly suitable for oblong and oval spaces, but from this class of monument we can derive little detailed information. The examples represented from gems in the British Museum explain themselves (Fig. 4).

The sprawling type is associated chiefly with the struggles of Heracles with the lion and with Antaeus. In the case of the lion Heracles forces its head down and tries to strangle it. Antaeus has usually been thrown by a neckhold, and is trying to support himself with his right hand while Heracles with both arms fastened round his neck strives to force him to the ground.



Fro. b. -R.-F. Kylik. (From J.H.S. x. Pl. I.)

(Fig. 5), a curious rendering of the scene, had the story that Antaeus derived fresh strength from earth existed in the sixth and fifth centuries. The kylix published in the Arch, Zeit actually represents Heracles throttling his opponent. Antaeus has been forced on to his back in the manner described above or possibly thrown by the flying mare, and Heracles leaning over him with his right hand pins his right arm to the ground, and with his left hand grips him by the throat.

Another interesting type afforded by Heracles' contests with the Triton and Achelous will be discussed in connexion with ελιμακισμός.

 <sup>(</sup>Χ. Aristoph. Pas 895—
 (π) ηθι παλαίειε, τετραποδηδόν έσταται, πλαγίαν καταδάλλειε, έι γόνατα πέβδ' έστακαι.
 (Ε.Μ. Fass B 159, 199, 217, 301, etc., ε.

H. B. Waltom, Introduction to B.M. Vesss, II., p. 14; Gerh. A.V. 189, 185.

<sup>&</sup>lt;sup>13</sup> Klein, Ice, ett. A.; J.H.S. x. Pl. I.; Asch. Zett. 1861, Pl. CXLIX.

## E.—The alleged Brutality of the Pankration.

It has been the fashion to treat the pankration as a contest of brute force and to contrast the ideal pankratiast Heracles and the ideal wrestler Theseus as the representatives of force and skill respectively. The comparison is unfair to the pankration and to Heracles.44 The pankration is essentially a contest of skill, and there is no ground for so contrasting Heracles and Theseus. The invention of the pankration is ascribed to both heroes alike. According to Bacchylides, Heracles employed this method of fighting against the Nemean lion,25 and vanquished the latter, not by brute force but by all manner of skill. Another tradition tells us that Theseus was the inventor of the pankration, employing it against the Minotaur,26 Both Heracles and Theseus were represented as the types of science as opposed to force in their contests with Antaeus and Cercyon. A comparison of two passages written at very different periods will make both points plain. To Pindar the pankration was a contest of skill and Heracles was its noblest representative. But what is his idea of Heracles? Not the cumbrons giant of later art, but a man 'of short stature, and of unbending soul.' And of Melissus whom Pindar compares to Heracles we are told 'not of the stature of Orion was this man, but his presence is contemptible, yet terrible is he to grapple with in his strength,' and he owes his victory 'not only to the spirit of a lion, but to the sleight of the fox. ""

Philostratus writing seven centuries later has the same ideal. To him too Heracles is not the overdeveloped monstrosity of later times, but laχυρός και τέχνης έμπλεως δι' εὐαρμοστίαν τοῦ σώματος. Heracles is indeed of stature beyond that of mortal man: but such stature is not regarded by Philostratus as essential to the packratiast. I have already alluded to Philostratus' account of those pankratiasts whom he calls of ἐν μικρῷ μεγάλοι. He gives us an excellent illustration of such a paukratiast in his story of the Cilician who on account of his smallness of stature was nicknamed 'Halter,' or the 'Dumb-bell,' Whether the ideas of Philostratus corresponded to the practice of his own day may be doubted: the object of his treatise on gymnastics is to revive the purer and more skilful athletics of the past. At all events his evidence is a valuable confirmation of what Pindar tells us both of the paukration and of Heracles.

The injuries inflicted in the pankration have been much exaggerated. Fatal accidents did occur as in the case of Arrhichion, but they were very rare, rarer apparently than in Greek or in modern boxing. The Anthology presents

<sup>&</sup>lt;sup>34</sup> In my suriur articles, written before I had studied the pankration, I have fuller into the same mistake.

PE will

<sup>\*</sup> Schol, Pindar, New. v. 49

To it is true that on the wases the exploits of Heracles are not characterized by the grace

which marks those of Thesens. The reason is that the exploits of Herneles belong for the most part to the black-figured, those of Thesens to the red-figured period.

<sup>=</sup> Inth til

<sup>\*</sup> Im. ii. 21.

<sup>#</sup> Herein, 54, p. 578.

us with a gruesome array of the injuries inflicted by the hard and heavy boxing thougs, that we hear nothing of the injuries inflicted in the pankration. Indeed we are expressly told by Artemidorus that the pankration differed from boxing in being less dangerous, and this statement is borne out by the story told by Pausanias that Cleitomachus being a competitor on the same day in the pankration and in boxing asked the Hellanodikai to put the pankration first before he had been wounded in the boxing. For the so-called pankratiast's car I can find no authority whatsoever. We frequently hear of the boxer's injured ear, and the crushed ear is regarded as the sign of an athlete. But though it may have been sometimes caused by a blow, it may quite as well have been due to wrestling, to which Philostratus is expressly attributes it. It appears to have been precisely similar to the swollen ear so familiar to the Rugby footballer some years ago, and the ear-cap which the modern forward wears is identical with the aμφωτιδες worn by the Greek wrestler.

The pankration must not be held responsible for all the evils for which Galen and later medical writers condemn it and which it shared with boxing and wrestling. Such sports when they become a profession have always a degrading influence and the evil effects were increased in Greece by the utterly unscientific system of training introduced by professionalism, a life of over-feeding, over-sleeping, over-exercise, the coarsening effects of which on body and on mind we can still trace in later art. In the case of boxing we can see how the sport itself degenerated and became more brutal and less scientific. But these evils are due not to the sport but to the abuse of it. What the pankration was at its best we can learn from Pindar \*\* and even in Xenophon when the evil had already begun we find the charming picture of the boy pankratiast Autolycus. The closest parallel to the pankration, the Japanese Junjitzu, is certainly neither unscientific nor as practised by the Japanese brutal.

## Ε. - άκροχειρισμός, άκροχείρισις, άκροχειρίζειν.

'Aκροχειρισμός is explained by Liddell and Scott as a kind of wrestling in which the opponents grasped one another's hands without clasping the body  $(\sigma v \mu \pi \lambda o \kappa \eta)$ , and most modern books of reference agree in regarding it as some form of wrestling. Krause interprets it as the exercise familiar to every schoolboy in which two opponents clasp one another by the fingers and

<sup>11</sup> Auth. Pal. ci. 75, 76, 77, 78, 81.

<sup>\*</sup> Oneir, 1. 64 εδ δὶ παγκράτων κὰ αθτὰ τῷ πογμῷ σημαίτει πλὰν Βλάβητ.

<sup>&</sup>lt;sup>31</sup> Pant. vi. 15, 5. (2) the story of Thongenes, and Euthymus, ib. vi. 6, 5.

<sup>\*\*</sup> Sresuraţir, Sredhadiar, are used as epithete of athletes (Lumin, Leriph, 9, 1Nogen, Laert, v. 67), Cl. Theorett, xxii, 45, Plat. Gorp. 515 i., Protog. 342 n.

<sup>21</sup> Herme, 180, vo. 34 fire extravels for aby 6000 milker.

Eight of his odes are in honour of pankratinets, and from them can be illustrated every feature of Pindar's sthictic ideal strength, branty, training, skill, conrage, and endurance, while over all posside the fair, burred graces 'who give and grace vistory.

test their strength. This he says was a special trick of the pankration. But though we do hear of a wrestler or pankratiast securing victory by breaking his opponent's fingers, or the position described by Krause could not occur in a real contest.

The explanations given above are based solely on Pausanias' story of Acrochersites and entirely neglect the much more accurate definition of Suidas aκροχειρισμός has properly speaking nothing to do with wrestling: it belongs to boxing and to the pankration only so far as boxing formed part of the pankration. Plate in his Alcibiades distinguishes wpecwalaten and approxeculterflux. The same distinction is found in Lucian, who also in another passage definitely explains ακροχειρισάμενοι by the words και παίσαντες και παισθέντες έν τῶ μέρει. " But άκροχειρίζεσθαι is not quite the same as werevery. It implies that the hand is extended, not clenched nor bound with any form of inas or caestus. It means 'to spar' and is properly used not of the actual contest but of practice. Thus Aristotle it as an instance of injury inflicted involuntarily quotes the case of a man who in demonstrating to another how to deliver a blow like of disposeion condentally deals him a serious blow. Philostratus in his rules for training lays down the principle that athletes who have over-eaten themselves—a practice for which the professional strong man was notorious in later times and which was indeed encouraged by trainers-must be strictly moderate in exercise. For example he says πύκται οκροχειριζεσθων έλαφροί τε και αερίζοντες. \*\* And in Athenaeus we find the similar combination σκιαμαχούσι και πρός άλληλούς άκροχειρίdepicter, orangeres in mean to best the air, fight with an imaginary opponent, and aκροχειρίζεσθαι means to spar lightly with an opponent for practice and exercise. Sometimes a bag filled with sand called the κώρυκος was used in the same way as the modern punchball, a light one by boxers, a heavier one by pankratiasts." These various forms of exercise are classed together by Hippocrates as means of hardening the body and removing superfluous flesh ακροχείριξ Ισχυαίνει και τάς σάρκας έλκει άνω και κωρυκομαχία και χειρονομία τα παραπλήσια διαπρήσσεται !!!

The training of the pankratiast would naturally be partly the same as the boxer's, but in his case ἀκροχειρισμός appears to be used not merely of practice, but of the actual contest. Philostratus after describing the wrestler says καὶ ψαγκρατιάσει γε ὁ ταιούτος τὸ κάτω παγκράτιον ἀκροχειριεῖταὶ τε ούχ ἡσσοι. We have seen that the use of the fist was certainly not forbidden in

<sup>22</sup> Pann vi. 4, 1. Cf. vol. xxv. of this Journal,

<sup>\*</sup> προτούσε ή παγαρατιάζεις πρός Στορος Εσου συμπλουθε ή Ελωτταϊς Εκραίτ μες Ελλου γομούζευθαι.

<sup>&</sup>quot; Almbert 107 E.

<sup>&</sup>quot; Lexiphon, 5: De Salt 10.

of Nic. Eth. iii. 1. The v.f. #532 Bookdpares milepted by Bywater for the nemal Sector Bookdpares would sait my argument still better. 42 Gym., 50.

Athen xiv. Another word of similar meaning is xequesulz. So the states of Glancos represented him owneraxoberes (Paus vi. 10, 3), and Lucius describes an athlete practising as kextifurra six the digs & six every whapie wire according to the development in higher exists (Hermotics, 13).

<sup>\*\*</sup> Phil. Gym 57.

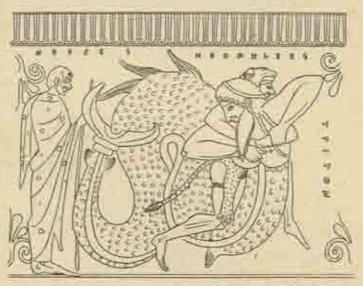
<sup>&</sup>lt;sup>67</sup> De Direct. H. p. 364, L. 16 (Founities); eps. 374, 3;

<sup>\*\*</sup> Op. +it. 38.

the pankration. At the same time one can understand that in a contest combining wrestling and boxing there is an advantage in striking with the open hand so as to be able to secure a grip without delay and also to avoid injuring the knuckles. A good illustration of such fighting is afforded by a fragment of a r.-f. kylix in Berlin for (Fig. 2) on which we see a fallen pankratiast bleeding at the nose and bearing on his back the full imprint of his opponent's hand. The latter is leaping on him with one hand grasping his arm, the other hand drawn back to strike. A possible reminiscence of the word occurs in Nonnus' description of the struggle between Aristaeus and Aeacus, ἄμματι χειρῶν ἀκροτάτω σφίγξαντες. We can see then how appropriate the term is to describe the preliminary sparring in the pankration. In boxing there can have been little sparring after the introduction of the heavy caestus, and therefore the word ἀκροχειρισμός which does not occur before the fourth century is confined to the training school.

## G -κλιμακισμός, κλιμακίζειν, διακλιμακίζειν.

The lexicographers give the usual stereotyped explanations of this term παράγειν και διαστρέφειν, ακελίζειν και διαστρέφειν. Τhe true explan-



Pig. 6.—Hengeles and Triton. B.-F. Amphora in B.M. B 223.

ation was suggested long ago by Hermann in connexion with the chorus in Sophocles' Trackiniae 497-530 describing the contest between Heracles and Achelous and a comparison of the monuments leaves no doubt as to the

<sup>&</sup>quot; Hartwig, Fig. 12.

<sup>4</sup> Prange, nexvii. 560.

<sup>&</sup>quot; Suidas, Photims, Etym. Mag.

correctness of Hermann's interpretation. κλιμακίζειν means to jump on to an opponent's back knotting one's legs and arms about him—to make as it were a ladder of him. The cognate word κλιμακίς is used similarly of a woman who makes a ladder of herself by allowing some one to climb upon her back.

Sophocles describes the struggle between Heracles and Achielous as an athletic contest. It was the pankration πάμπληκτα παγκόνιτα τ' ἄεθλ' ἀγώνων, and Kypris stood by as unpire holding the rod, ῥαβδονόμει,

τότ' ήν χερός, ήν δε τόξων πάταγος ταυρείων τ' ἀνάμιγδα κεράτων ήν δ' ἀμφίπλεκτοι κλίμακες, ήν δε μετώπων ἀλόεντα πλήγματα και στόνος ἀμφοΐν.

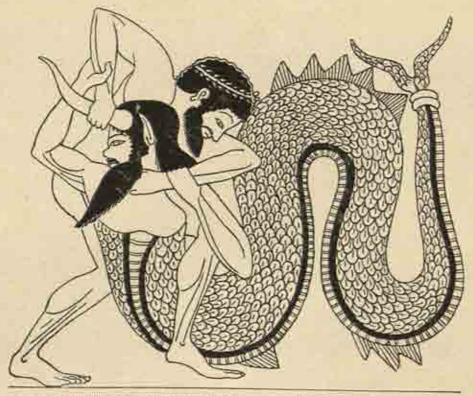


Fig. 7.—Himagies and Admendis, R.-F. Stammon, B.M. E 437. (Geth. M.V. 115.)

Every detail in this passage recalls the representations of the contest on the vases, in the light of which the τόξων πάταγος becomes at once intelligible. Herucles has his bow still shing across his shoulders and the 'clatter of the bow' mingles quite naturally with the 'clatter of fists and horns' in the scene depicted on Fig. 8.

The scholiast commenting on αμφίπλεκτοι κλίμακες says έπαναβάσεις

wapà ανω τε και κάτω αύτωνς στρέφεσθαι ἐν τῷ μάχῃ, τοῦτο δὲ τὸ σχῆμα Ἡρακλέους ἀκουστέου. The scholiast is right: κλιμακισμός does mean mounting on an opponent's back and this type is associated in art with Heracles in his contests with various monsters. A very favourite subject in early art was Heracles wrestling with the fish-tailed Triton. We find it on island gens, on bronzes from Olympia, in the pediments of the temple of Assos, in the archaic pediments from the Acropolis. and on numerous blackfigured vases (Fig. 6). Heracles attacks the Triton from behind and knots his arms round his neck: in the pediments where the group fills the angle space he sprawls beside the Triton, on the more ample vase spaces he is always

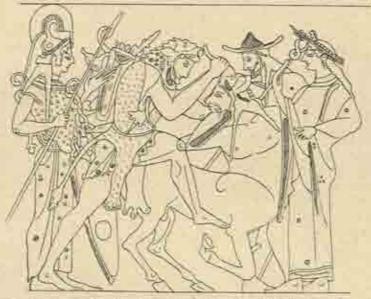


Fig. 8.—Henames and Americas, R.-F. Harris. B.M. R 515. (One Arch.)

represented astride the Triton who vainly strives to loosen his grip. On a r.-f. stammos in the British Museum E 437 by Pamphaeus (Fig. 7) we find the same type adapted to the contest with Achelous, who differs only from the Triton in the addition of the horn. This vase is, however, exceptional, Achelous usually being represented as a bull with a human head or body, while Heracles attacks him either in front or from behind and seizes his horn. Here too the motive is taken from the pankration or wrestling. On a b.-f. amphora in the Louvre, 52 Achelous, who is here represented centaur-like with a man's body growing out of a bull's, seizes with his hand Heracles' left foot; an adaptation of the Antaeus type; on a b.-f. amphora and a hydria, both in the

H.S.-VOL XXVI.

E. A. Gardner, Greek Semipture, pp. 63,

E B.M. Pass B 201, 223, 224, 311, 312, 493,

<sup>494 :</sup> Gerh. A.F. 111.

<sup>&</sup>quot; Arch. Zeil. 1862, Pl. CLXVII.

British Museum B 228, 313 (Fig. 8), 32 we have, I think, a reminiscence of the Triton type. Heracles has seized Achelous by the horn and by the beard; Achelous has been forced on to his knees and Heracles raises his left leg in order to mount astride him. It is by the same means that Theocritus represents Heracles killing the Nemean lion, 34 though the artistic type is not as

far as I know employed for this contest

We see then that the explanation of the scholiast is supported by the evidence of an artistic type with which Sophocles must have been familiar. Heracles is represented constantly as 'mounting' on the Triton, and sometimes on Achelous. The motive, as we see from the literary and artistic evidence, is borrowed from the palaestra, and its identification with chinas is confirmed by the elaborate description of it in the account of Heracles and Achelous by Ovid, who faithfully preserves the old literary and artistic tradition.

Further evidence is supplied by a line of Plato Comicus, Πρεσβ. 2. χαίρεις αὐτον μεταπεττεύσας καὶ διακλιμακίσας. Το execute the κλίμαξ it was necessary to get behind one's opponent either by turning him round μεταβιβάζειν, π or by springing round him. μεταπεττεύειν, to move a draughtsman, is an obviously appropriate variation for μεταβιβάζειν, and διακλιμακίζειν is merely a strengthened form of κλιμακίζειν perhaps denoting the success of the movement, just as διαπαλαίειν means to wrestle successfully, or throw. The other method is clearly described by Lucian in Anacharsis 31. Anacharsis draws a humorous picture of the Greeks advancing to meet an enemy's attack like boxers with clenched fists. 'And the enemy,' he says, 'naturally cower before you and take to flight for fear lest, as they stand gaping, you till their mouths with saud or περιπηδήσαντες ώς κατά νώτου γένησθε, περιπλέξητε αὐτοῖς τὰ σκέλη περί την γαστέρα καὶ διάγχητε ὑπο τὸ κράνος ὑποβαλόντες τὸν πῆχυν.'

The κλιμακισμός may be used when the opponent is standing or when he is already on the ground, but both varieties belong to the pankration and not to δρθή πάλη. For it is impossible to throw an opponent in this way without falling oneself, and in the standing type as well as on the ground throttling is employed to force him to yield. The standing type is described by Philostratus in his picture of the wrestling Erotes. ά μὲν ῆρηκε τον ἀντίπαλον περιπτὰς αὐτῷ κατὰ τῶν νώτων καὶ ἐς πνίγμα ἀπολαμβάνει καὶ καταδεῖ τοῖς σκέλεσιν, ὁ δε οὕτε ἀπαγορεύει καὶ ὁρθὸς ὑπανίσταται καὶ διαλύει την χεῖρα ὑψ ἡς ἄγχεται στρεβλώσας ἐνα τῶν δακτύλων, μεθ ὑν οὐκέτι οἱ λοιποὶ ἔχουσιν οὐδε εἰσιν ἐν τῷ ἀπρίξ, ἀλγεῖ δὲ ὁ στρεβλούμενος καὶ κατεσθίει τοῦ παλαιστοῦ τὸ οὖς: ὅθεν δυσχεραινουσιν οἱ θεώμενοι τῶν ἐρώτων ὡς ἀδικοῦντι καὶ ἐκπαλαίοντι. The type on the ground is described by Lucian in the first chapter of the Anneharsis, and at greater length by Heliodorns. Βοth

<sup>&</sup>lt;sup>30</sup> Arch. Zeil. 1885, PL VI.; Gen. Arch. 1875.
Pl. XX.

<sup>\*\*</sup> XX. 266 ff.

<sup>20</sup> Met. ix. 83 ff., especially 51, 52. Cf. Lucan, Phase iv. 628; Station, Theb. 900.

To Cf. vol. xxv. of this Journal, p. 287-

<sup>=</sup> Im, t. 6, 12. ii Asth. s. 31, 32 mosts

<sup>&</sup>lt;sup>10</sup> Asia, 4, 31, 32 quoted in full by Kraus, ep. cit. p. 912.

types occur on the Tusculan Mosaic to which reference has been made; in both cases we see the attack made from behind, the legs turned round the opponent's body and the arms round his neck.

Very similar is the Uffizi wresting group, of which according to Hans Lucas the Mosaic group is a reminiscence. In the marble, however, the uppermost wrestler is not throttling his opponent and cannot have been so represented whether the present restoration of his right arm is correct or not. It is presumptuous to give an opinion without having seen the original, but so far as I can judge from photographs and casts I see no reason to doubt the general correctness of the restoration. The fallen wrestier is supporting himself on his left arm, and his opponent's immediate object is to break down This could be effected by a blow. For the underneath wrestler's right arm being secured he can only guard his head with his left. The description in Heliodorus is to the point. Thengenes having forced the Aethiopian champion on to his knees twines his legs round him and then knocking away his wrists εκκρουσάμενος τους καρπούς οις επερειδόμενος ο Aiθlow aveixe τα στέρνα and knotting his arms round his head he forces him down on his stomach to the ground. While a wrestler is supporting himself on his hands and knees his position is far from hopeless, and he can by a quick and vigorous movement often overturn his adversary and secure the advantage. Such is the moment selected by the sculptor of the Uffizi marbles; the victory is still undecided, the uppermost wrestler is anxious to make sure of his victory, the other is eagerly watching to take advantage of any carelessness on the part of his opponent and reverse matters. The situation can be illustrated by Philostratus' account of the death of Arrhichion. Arrhichion is being strangled by his opponent who is on the top with arms and legs entwined round him; but even as he is expiring he takes advantage of a moment's relaxation of the grip to kick his right leg free, and rolling over so as to crush his opponent's left side he seizes his right foot and twists it out of its socket with such violence as to force him to yield and so even with his last breath he secures the victory."

The term πλίγμα preserved by Hesychius is apparently another name for κλιμακισμός. He defines it as βήμα ἀπὸ τῶν κυλιομένων καὶ παλαιόντων ὅταν παραβάντες τοῦς σκέλεσι κατέχωσιν.

## Η. - άποπτερνίζειν, πτερνίζειν.

The trick by which Arrhichion secured his victory appears to have been similar to that known as τὸ ἀποπτερείζεω, the invention of which Philostratus assigns to the Cilician pankratinst nicknamed, for the smallness of his stature, Halter. The latter, on his way to compete at Delphi, stopped at the shrine of the hero Protesilaus, to consult him and ask how he could vanquish his opponents. The hero replied πατούμενος. He was disconcerted

at first by such an answer, but being a man of invention he devised ro αποπτερνίζειν, understanding that the advice of Protesilans was μη μεθίεσθαι του ποδός του γάρ προσπαλαίουτα τη πτέρνη πατείσθαι τε ξυνεχώς χρή και ὑποκεῖσθαι τῷ ἀντιπάλφ. By this means he acquired renown and was never defeated. We have seen already that Philostratus enumerates among the methods of the punkratiant σφυρώ προσπαλαίειν. In the LXX πτερνίζω is used of Jacob supplanting Esan, and in the account of the birth of the twins we read Exase This mrepros. Suidas explains the verb as dward h λακτίζει, and Liddell and Scott translate it accordingly in the passage of Philostratus quoted above to kick off with the heel. One can only suppose that they took the translation on trust and did not verify the reference. For Philostratus leaves no possible doubt as to the true meaning, 'to seize by the beel and so throw.' This meaning is required by every passage quoted and is in agreement with a further note in Suidas πτέρνα - ὁ δόλος καὶ πτερνίζω το καταβαλλω. We have seen how Antaeus grabs at the foot of Heracles and how in doing so he is forced on to his knees. Antaeus represents clumsy untrained brute force. In the hands of a strong and active adversary the attack is far more dangerous and any one who has seen Japanese wrestle will understand something of grips in which victory may be secured by falling, συμπλοκών έν αις περιγίγνεσθαι χρή οίοι πίπτοντα.

#### Ι.-ύπτιασμαί.

The last two sections will help us to understand these συμπλοκαί and the ὑπτιασμοί mentioned by Philostratus. ὑπτιασμός means 'falling backwards' A favourite Japanese throw is the stomach throw. A wrestler seizes his opponent by the shoulders or arms and throws himself backwards at the same time planting his foot in the other's stomach and thus throwing him heavily clean over his head while he himself falls lightly. The throw was known to the Egyptians, being represented on the tombs of Beni-Hassan. It is accurately described by Dio Cussius at in his account of a battle between the Romans and the lazyges: ' whenever any of them fell backwards he would drag his opponent after him and with his feet hurl him backwards as in wrestling.' A similar method of defence is suggested by Pindar's description of Melissos in the third Isthmian ode. In eraft he is as the fox that spreadeth out her fest and preventeth the swoop of the engle." This clearly denotes some form of υπτιασμός, and once more Antaeus affords us an example of the failure of this means of defence and of that described in the last section. A b.-f. hydrin in Munich 64 represents him lying on his back with his right hand grasping Heracles' left foot and his left leg kicking him in the stomach. But in vain. Heracles has seized his uplifted leg with his

.

<sup>&</sup>quot; Gra. anvil. 26, xxv. 25.

Incl. 7: Ann' est united the miral force, ouregoiners the antitudes and the morte de robites despitates Gottes to make.

<sup># 1.78 :</sup> μήτιν δ' άλωσης, αίντοῦ ᾶ τ' ἀναντινομένα βόμβον Γσχει.

<sup>&</sup>quot; Jahn, 114 | Arch. Zeit. 1878, x.

left hand and his head with the right, and forces leg and head together. The only other example that I know of such a position is a bronze, figured by Montfancon, to representing a wrestler fallen on his back apparently

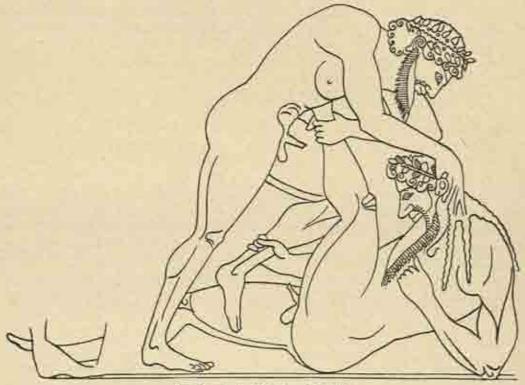


FIG. 9. B. F. Hybria. Musica.

kicking his opponent in the face, but I have failed to discover any further details of this group.

## J .- Technical Terms of Doubtful Meaning.

It remains briefly to mention certain technical terms known to us for the most part only from lexicographers. Without further examples of their use any explanation that can be offered is merely provisional.

άγκυλίζειν (Pollux). Hesychius defines άγκύλη as ή τοῦ ἀγκῶνος καμπή and Grasberger therefore explains άγκυλίζειν as seizing an opponent's neck in the bend of the arm. Another explanation is suggested by the scholiast to Homer, Πιαί εχίμι 7.26, έκρουσεν αὐτοῦ, ψησίν, ἐπιτυχῶν ὅπιθεν τὴν ἰγνῦην ῆτις καὶ ἀγκῦλη καλεῖται. Philostratus Im. ii 6. 62 uses ἀγκῦλη in the same way. ἀγκυλίζειν might therefore mean to 'ham' or strike behind the knee.

<sup>4</sup> Ant. Expl. iii. 165, 2; Reinach's Reporteirs, ii. 538, 6.

άγκωνίζειν (Pollux), according to Krause=άγκυλίζειν, according to Grasberger to drive one's elbow into an opponent's ribs, a trick of doubtful utility in wrestling. Perhaps on the analogy of other wrestling terms it might mean to seize an opponent by the elbow, a grip often represented.

à πάγειν (Pollux), meaning unknown.

παρακρούειν (Εt. Mag.) παρακρούεται = ἀπατῷ ἀπὸ μεταφορᾶς τῶν παλαιστῶν οῦ καταβαλλῶντων ἀλλ' ἐν ὧρα παρακρουόντων ἡ ποδὶ ἡ χειρὶ και οῦ ῥιπτόντων. It means therefore to deceive an opponent by feinting either with hand or foot. Similarly a wrestler may by a false movement of his own less his balance, and so Plato describes the errors into which a dialectician falls as σφάλματα ἃ ῦφ' ἐαυτοῦ παρακέκρουσται (Theactet, 168 a).

πλαγιάζει» (Pollux) usually interpreted as παρακρούεω. Perhaps used in its natural sense 'to turn or throw sideways.' Thus Eustathius 1327.

8. R commenting on the Homeric wrestling match says πλάγιω πίπτουσιν.

Other technical terms occur in the Oxyrhynchus papyrus iii. 466. The papyrus consists of three columns of which two have been published. The first is so much mutilated as to defy interpretation; it is marked like the second column by the repetition of the command \(\pi\left\)\(\phi\)\(\phi\)\(\phi\)\(\phi\)\) which does not occur in the second column. The latter is much better preserved and I have in previous articles suggested interpretations of certain portions of it. I have been unable to form any consistent idea of the movements described in lines 21-27 and I have therefore appended the whole text in the hope that some one more experienced may be tempted to suggest a solution.

παράθες το μέσου και έκ κεφαλής τῆ δεξιὰ πλέξου συ περίθες συ ὑπ' αὐτὴν ὑπό-20 λαβε συ διαβὰς πλέξου συ ὑπόβαλε τὴν δεξιὰν [σο]υ εἰς δ ὑποβάλλει περιθ[ε]ς κατὰ πλευροῦ τὸν εὐ[ώ]νυμυν βάλε σὐ ἀπόβαλε τῃ εὐ-25 ωνύμφ σὺ αὐτὸν μεταβὰς πλέξου σὺ μεταβαλοῦ σὐ κατὰ τῶν δύο πλέξου σὶ βάλε πόδα σὺ διαλάβ[ε σὐ ἐ] πιβὰς ἀνάκλα σὺ προστ[ὰς] 30 ἀνάνευε καὶ εἰς αὐτυ[ν . . . λου καὶ αὐτὸν ἀντιβλ[. . .]

My thanks are due to Mr. Cecil Smith for permission to publish various vases in the British Museum, and also to Mr. H. B. Walters for constant assistance and advice, particularly with regard to the mythological types.

E. NORMAN GARDINER.

#### POEMANENUM

# [PLATE VI.]

The site of Poemanenum is a vexed question in Mysian topography, on which no clinching evidence is as yet forthcoming; it is important for its hearing (a) on the Roman road-system, and especially on Aristides routes, and (b) on the geography of the Byzantine wars. The position of the place may thus be deduced from two sets of data relating respectively to the Roman road-post and to the Byzantine fortress; those who work from road-evidence alone tend to place the site either on the Acsepus at Gunen, or, more vaguely, in the Tarsius valley; those who lay stress on the Byzantine evidence point inevitably to Eski Manyas, a village some few miles south of the lake of the same name.

The claims of Eski Manyas to the Byzantine site appear to me incontestable: to put quite briefly what has often been discussed at length, we have here remains of the strongest Byzantine castle in the district, in a position corresponding to what we know of Poemanenum; and, besides this, an echo of the ancient name is evidently preserved.

I venture to differ, however, from Dr. Wiegand as to the importance of Eski Manyas as a natural road centre: its direct communication with the plain of Balukiser is a little used horse-track, while, of the two high-roads which intersect at Manyas on Dr. Wiegand's map, the Pergamon-Cyzicus would pass more expeditiously west of the lake, while his ἀρχαία βασιλική, as the later route given by Hadji-Khalfa shews, need never rise so far into the hills. If this reasoning be correct, Manyas was the Byzantine site, and the Roman lay elsowhere.

Such a theory has nothing in itself improbable: the territory of the Poemaneni marched with that of Miletopolis on the east, and may well have extended to the Assepus on the west: there is thus ample room for a

The identification was first made by Hamilton (ii, 105); for descriptions of the site secals A. D. Mortimann in declarate 1855, 887; A. Sarlin Durigny in Rev. Arch 22xiv, 102 ff., J. A. B. Munro in Goog. Journ. 1807, 160; and Th. Wiegand in Ath. Mills. 2xix, 282. Le Bus placed Poemanenum, fortress and sillage, near Kestelak (Rev. Philol. I. 211-216, of V. de St. Martin in Nouvelles Assales des

Vonto. 1845, IL 189-40).

Of, especially a form Remarios which occurs in several spinoopal lists.

<sup>&</sup>lt;sup>3</sup> Trans. Northerg, ii. 530. The rend passed from Ulniad bridge by Salyr to Körpengatch.

<sup>&</sup>lt;sup>4</sup> A boundary stone was found at Mihallitch (Ath. Mitth. ziv. 247; J.H.S. zvii, 271, 13, et. ib. zxiv. 24).

second site, while the transfer of population to better protected positions in troublous times is a common phenomenon.

The evidence of Stephanus is wholly in our favour; he describes Poemanenum as (I) πόλις ήτοι Φρούριον ἔστι δὲ καὶ (2) χωρίον τῆς Κυζίκου,

the (Byzantine) fortress and the (Roman) village on the road.

The Peutinger Table, to turn to the road evidence, places Phonenio between Cyzicus and Argiza (Balia Bazar, on the upper Aesepus) on the road to Pergamon. This statement taken alone has led to the theory that Poemanenum was at Gunen (on the lower Aesepus), and an inscription from the latter has been restored with the name Π]ημ[αν]ηνῶ[ν]: this, however, granting the restoration to be correct, proves at most that the territory of the Poemaneni extended to Gunen, while Aristides definitely separates the springs on the Aesepus (certainly at Gunen) from the temple of Asclepius at Poemanenum, which lay on his way thither. Gunen, then, may be discarded.

Prof. Ramsay in his Historical Geography placed Poemanenum in the Tarsius valley, seeing that the Pergamon road must inevitably pass west of the lake. We have evidence for a Roman road about Baha (probably the Ergasteria of Galon, 440 stades from Cyzicus on the way to Pergamon'), and the natural route thence to Cyzicus is the Tarsius valley. Munro, after much consideration, inclines to the opinion that if Aristides was making for Gunen' (which view Munro was forced to accept later), Poemanenum would fall about five miles north-west of Ibdja,

The chroniclers of Barbarossa's expedition <sup>22</sup> throw a fresh light on the subject. The army, on its way from Lampsacus to strike the Macestus valley road, after crossing the Aesepus, passed a 'palms undique stagnams' (the lake of Manyas) and encamped 'inter oppidum Ypomenon et civitatem Archangelon <sup>138</sup> Ypomenon is certainly the fortress of Manyas, while the civitas Archangelos may well represent the town about the church of S. Michael, which appears to have succeeded the temple of Asclepius at Poemanenum. <sup>14</sup>

In 1904 I was tempted by the usual mysterious rumours to visit the new Circassian village of Alexa, on the left bank of the lower Tarsius. Alexa is one of many settlements which have been attracted by the rich grass-lands of the broad valley, here separated from the plain and lake of Manyas only by the low ridge on which Hadji Paon stands. Overlooking the valley just west of the village is a hill crowned by a grove of small but well-grown oaks, a peculiarity shared by none of the surrounding hills; though the valley at this point is said to be full of ancient remains right down to, and even

See Ath Mitth xxix 272.

<sup>\*</sup> Ath. Math. it, 50. The provensum given is ! South of Gamen.

<sup>7 4. 502-3,</sup> Timl.

<sup>&</sup>quot; P. 158 (after Kiepert) though he identified it with Manyas, doubting the correctness of the latter's position on the map.

<sup>\*</sup> De Molle, Simplie, in 127.

H P. 168.

<sup>#</sup> J.H.S. XXL 234-5.

<sup>&</sup>lt;sup>12</sup> Ambert (of. Debracely); Tegeno (Freher Scriptores R. German); Auan Cannil (Thecourse iii, 527, ed. 1728 Antw.)

if Ama Came Ansbert has enter circlatus Archangelos et castrum quoddom.

<sup>4</sup> метр. 37 и ст тоїз мерет той Поплатичий.

<sup>&</sup>lt;sup>18</sup> About an hour below Subsimonly on Kiepert's map.

beyond, the river, this particular hill is considered the surest place for stones, and rubble foundations are visible in a clearing among the trees on the top, Such a site, facing due south, and enjoying, as I was told, immunity from the fevers of the lake plain, is perfectly suitable for a temple of Asclepius, whatever truth there may be in the villagers' story of an ancient hammam discovered on the slope of the hill. The grove of oaks, again, may well be referred to the ancient Zeus, who appears from the autonomous coins of Poemanenum to have preceded Asclepius.

The comparative paucity of inscribed stones may be accounted for by the newness of the settlement and by earlier plundering of the site both in modern times by neighbouring villages and very possibly also by the Byzantine builders of the castle at Manyas. Worked marble blocks are common both at Alexa and at the next village below (Tchaoush Keui), while a thorough search of the house walls a delicate business in a Mahometan village-

would probably increase the list of inscriptions.

Beyond this, remains of two ancient bridges over the river are said to exist, one immediately below the wooded hill, another half an hour higher: the river was too high at the time of my visits to allow of my seeing anything but very doubtful remains of the northern abutment of the first.

It is more important to note that the site at Alexa lies within a few minutes of the modern road between Panderms and Balia, which, taking advantage of a low way in the hills, passes through the neighbouring villages of Tchakyrdja and Hadji Paon; this road leaves the Tursius valley at Boghaz Keni to avoid the gorge and passes through Hidja, descending into the valley again above Kaïlar. An eastern branch of it passes through Shamly to Balukiser. The road between Alexa and Balia therefore, would represent the Poemanenum-Ergasteria section of the Pergamon road while the Shamly route was probably that taken by Aristides on his way to the Aesepus.

The coins shewn me in the villages included imperial of Cyzicus (at Tchaoush Keui) and at Alexa a much worn autonomous coin of Poemanenum itself; of this I have only found two other examples in the country (at Panderma and Balukiser respectively) during four seasons' collecting.

Revisiting Alexa in 1905 I found the following inscriptions :-

By the river: fragment of marble funeral relief. Letters '02.

ANAP  $\Delta\Omega P$ 

'Ανδρ ομάχη ' Μητρο !δώρ ου, χαίρε

House-wall of Osman Effendi: marble 17 x 22. Letters 01.

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**TIONAZIOA** 

ΠΟΣΙΔΕΟΣΙΤΟΥΤΟΥΑΘ ΕΣΤΙΛΙΟΣΕΣΤΙΛΙΟΥ

> ΘΕΟΦΡΑΣΤΟΥ ΟΔΟΤΟΣΘΕΟ

Διορυσίου

Ποσίδεος <ιτου> τοῦ 'Αθ ηναίου !

Εστιαίος Εστιαίου

Θεοφράστου Θε οδοτος Θεο δότου  Ibid.: worn-bluish marble slab at foot of stnirs, 1 08 x 0 63m., with relief of herm in arched naiskos raised on steps. Letters '03.

Other inscriptions from Alexa are published in J.H.S. xxv. 60 (22); cf. C.I.G. 3700; bid. 61 (23). See also below, No. 6.

At Tchaoush Keni are the following:-

4. Fragment with bust in relief. Letters '02.

MA AIOYEF <IOYY ύπόμνη]μα Γαίου Σ[ερβιλίου? Λου]κίου υ[ίοῦ

5. Banquet stele, '08 × '60, broken. Letters '62.

ΜΗΝΟΦΙΛΕΜΗΝΟΘΕΜΙΔΟΣ ΗΡΩΦΙΛΟΠΑΤΡΙ ΧΑΙΡΕ

> Below and to r. relief of herm on steps.

Μηνόφιλε Μηνοθέμιδος. ήρω φιλόπατρι, χαίρε

For ηρω φελόπατρε on a funeral stele, cf. A.-E.M. xx. 73=Berl. Cat. Scalp. 835 (Zeleia?): on a basis Ath. Mitth. vii. 254, 24 (Cyzicus). I also saw fragments of a second banquet relief, and of a horseman relief, and bought the lower half of a bronze plaque of Roman date with relief of Cybele enthroned in miskos flanked by Hermes Caimilus and Artemis.<sup>15</sup>

From Chaoush Koui comes the stell [Pl. VI.], discovered and photographed by Mr. A. E. Henderson at Yoni Manyas, and now in the Imperial Museum (No. 1502).

The dimensions of the stele are 1.08 by 0.70 metre: the reliefs are somewhat unskilled and flat. The upper represents the deceased, accompanied by (a) an attendant with spare spears and (b) two dogs, riding right with uplifted spear towards a wild boar, already seized by one of the dogs: the thick, clamsy outlines (especially the shapeless head and neck) of the horse do not suggest Greek models.

The lower relief shows a somewhat unusual type of the funeral banquet: the wife of the deceased takes her place, as usual, on his couch, while a second female figure is represented seated on a throne (which has lionhead supports) to the right of the spectator, and receiving a patera from the reclining male figure.

All the components of the upper relief occur, if not in this exact combination, on the 'horseman' stelae characteristic of Thrace. Dumont, in his

<sup>&</sup>lt;sup>28</sup> A somewhat similar plaque exists in the not uncommun. e.g., Eeclin, Catal. Sculp. Nos. Louves (Catal. Bronces No. 616): the type is 892, 699.

analysis of their types, "cites eight examples of the hero hunting; in seven his quarry is a boar, in the other a stag. In two cases he is armed with a spear, and in seven examples he is accompanied by a dog. In one at least he is followed by an attendant with a spear. Finally, in nine cases the 'horseman' relief is associated with the 'banquet' relief.

Damont's No. 57 seems the nearest parallel to our own stele; on it the horseman gallops right holding a spear, his mantle floating in the wind; he is

accompanied by a dog and attacks a boar.

Nor are we without parallels at Cyzicus itself, where the horseman relief is fairly common: in particular a stele from Ermeni Keni with two reliefs published by Dr. Mordtmann in Ath. Mitth. vii. 253 (23) bears marked resemblances, in type at least, to the Manyas reliefs: the style is radically different ('sehr hohes and sorgfältig gearbeitetes Basrelief') but the horseman scene (here the lower relief) is a very near parallel. Dr. Mordtmann describes it thus: 'Mann and einem sich bäumenden Pferd, schwingt den Speer nach einem Wolf oder sber-artigen Thiere. Hinter ihm ein Mann den Speer auf den Bucken. Unter dem Pferd ein Hund.'

As far, then, as type is concerned, we should consider this stele one of the monuments of the immigrant Thracians, of whom we have so many traces in this part of Asia Minor, is and whose place is aptly enough filled to-day by the horse-loving settlers from the Caucasus.

Still more interesting are the traces, first pointed out to me by Mr. G. F. Hill, of Persian influence: to it must be referred the costume of the two figures in the upper relief, and the treatment of the tail and mane of the horse. Both of these are tied or plaited, the forelock of the mane forming a kind of crest. This is shewn frequently in pure Persian monuments, while the tied tail occurs also on the coins supposed to have been struck by Evagoras II, in Caria: \*\*\* on these coins the pose of the rider sometimes closely resembles that of our 'hero.'

A further point of interest, shewing the curiously partial action of the Persian influence, is the treatment of the boar's mane; the gap in the middle is a peculiarity common to certain districts all within the range of Greek influence.<sup>21</sup>

On the other side of the lake, at Yenije Keui, Munro discovered a murble slab with a sculptured relief of three horsemen in Oriental garb galloping over two corpses. The style and types resemble those of the

<sup>&</sup>quot; Inserv. de la Thrace, p. 518. Unfortu-

nately none seem to be illustrated.

18 It is perhaps pertinent in the present connexion to cite as an example the name Poemanusum and the Macedonian tribs Poemanii mentioned by Stephanus. Radet (de Colontis a Macedonian origin to the place on the ground of Pliny's justicessition of Poemanus.

Macedoniae.

<sup>&</sup>lt;sup>16</sup> Cf. s.g. Perrot, Perm, p. 801, Fig. 474, and the cylinder (Babelon, Coll. Percent de la Chapette, Pt. 111, 17) compared by Mr. Hill (B. M. Coll. Cyprus, exi.) with the Evagoras soin-type.

Babelon, Perms Achenemoles, p. erxiti.
Eyeia, Cyprus, and S. Russia; see Furt-

warngier, Galiffand om Fettersfalde, p. 23: 1 owe this reference to the kindness of Mr. O. M. Delton.

Lycian reliefs'; 22 and higher up the Karadere I saw a mutilated lion in marble which certainly betrayed non-Greek influence, especially in a curious convention of loops set in rows to represent the hair of the mane.

Another inscription probably belonging to the series is published in Syllogos viii, 171 (1). The provenance is given as 'near Miletopolis,' the inscription being communicated by Nicodemus, Metropolitan of Cyzicus, who placed Miletopolis at Hadji Paon 36 (Kiepert's Adji Bunar). The text runs:

- . . ισμον άθεις τον βωμόν | Ποσειδόνι (εω) | Κλανδιανός 'Ασ-[κληπιάδου τοῦ | 'Ανδρονείκου ιερώμε | νος πρώτος τον θε-|ον έκ τῶν ἰδίων | ἀνέθηκεν.

The beginning is possibly to be restored  $\mu = \tau \hat{a} + \tau \hat{o} \nu - \sigma \epsilon [\nu \sigma \mu \hat{o} \nu - \hat{a} [\nu \sigma \theta] \epsilon i \varsigma$ , but, as we know nothing of the stone, conjecture is rash: the restoration  $\sigma \epsilon i \sigma \mu \hat{o} \nu$ , however, has the advantage of giving an appropriate cause for the dedication inland. It should be noted also that (a)  $K\lambda a\nu \delta \iota a\nu \sigma \varepsilon ^* \Lambda \sigma \kappa \lambda \eta$  is one of the few magistrates' names which occur on the imperial coins of Poemanenum: (b) that this coin is of Commodus as Caesar: and (c) that an earthquake destroyed Smyrna in the last years of M. Aurelius? The type of the coin—an Eros similar to the Parian—is unique in the district, and it is possible that EPQTOS should replace  $\Pi P \Omega T O \Sigma$  in line 7, and that the dedication refers to the statue shewn on the coin.

I take this opportunity of publishing the following:-

 Panderma, Levon Effendi: stele with two reliefs, the upper broken away except remains of altar, Zeus and eagle: beneath. Letters 015.

# ΟΥΑΡΙCΦΡΙ ΜΟ ΟΠ ΜΑΛΙΩΝ Α ΈΠΙ ΤΑΓΙΝΟΎΘΕΟΥ ΑΝΕΘΙΚΑ ΕΙΚΕΤΕΎ ΜΝ

Οὐάρι(ο)ς . . . . . Πωλλίων κατ' έπιταγήν τοῦ θεοῦ ἀνέθηκα εἰκετεύων

The lower relief represents a man leading bull r, to sacrifice. This stele is possibly from Alexa, since with it was a small square base with relief, of which I saw a counterpart in Alexa.

 Fragment with remains of incised outlines of feet, inscribed (letters '015).

| POY | НГАДФ | ASKA | MHT |
|-----|-------|------|-----|
| 04  | ΟΣ    | НПІА | 041 |
|     |       | AOY. | POY |

<sup>=</sup> J.G.S. 1897, 158.

<sup>&</sup>lt;sup>13</sup> Αυτογράφη όν των Τουρκιώς χωρίω πληνίου της πονοβονίας της δε Μυνής Μλλητανόλεως. Ευτί Το κεχαραγμόνη όνο βάθρου προφασή φέρωτος σημεία ότι έχρησεριστο δε βάστι δχάλματος.

In his Προλογόμενα περί της δπαρχίας της Κυζίκου, printed with 'Ακολοσσία του δε άγιους πατρία ήμων Αμμλίανου έπισκόπου της Κυζίκου, Conn. 1876, pp. 20, 27 : Καθ' ήμως πιδακόπονα.

λέγουσην οἱ τιθέντεν μίστης ως Μιληγωίσολος] καρά τὸ Τσοραικόν χορίος Χαμαμλί, συμκομιλαμΕπικρώσου καὶ τοῦ νέπο Χριστιανικού χωρίος Χατ(Π-Παγών Κ)αι.

<sup>=</sup> Babelon, Inv.; Wmidisoton 1996 (Commodus); cf. also Zeitschr. f. Num, iii. 123.

Waddington, Vis d'Aratido, pp. 66; ct. Dio Cass, Exx. 37.

There are many other similar monuments from Cyzicus, Dethier Epig. Byz. Pls. VII.-IX incl.; Ath. Mitth. vi. 122, 4; vii. 252, 18a, b; x. 207, 32; cf. C.I.G. 6485. Outside Cyzicus, cf. Fraenkel Insulv. v. Perg. 574, C.I.G. 4945-6.

The Thrukia Kame stele (J.H.S. xxiv. 21. 4, Imperial Museum, No. 1503) is now said to have come from Mahmun Keui.

The correct restoration of the honorary inscription of Trophimus (J.H.S. xxiii. 77. 8) is FNW MH[B]OYAH  $\Sigma$ KAI  $\Delta$  HMOY, etc.

Apollonia (copy communicated by M. Alphonse Serafimoff).

Stele with pediment:

ΑΓΟΛΑΩΝΙΔΟΣΓΡΑΞΙΟΥ ΤΗΣΓΡΑΞΙΟΥΤΟΥΡΑ ΤΡΩΝΟΣ Απολλώνιδος Πραξίου τῆς Πραξίου τοῦ Πατρῶνος

F. W. HASLUCK.

Note on an Inscription from Marmara.

The following epigraphic text from Marmara, published by M. J. Gedeon Προκάννησος, F. p. 90, is not without importance for the history of Cyzicus and Proconnesus in Imperial times. Gedeon published (1) copies taken by himself of three fragments, and (2) a copy, communicated by a friend, taken from the same stone when in a more perfect condition.

| (1) a   | γ  | β                               |
|---|--|---------------------------------|
| ΗΛΙΟΣΝΙΓΕΡΙΕ<br>ΚΑΙΕΠΕΤΕΛΕΣΕ<br>ΑΡΧΟΥΝΤΟΣ                                   | ΑΤΟΚΑΙΣΑ<br>ΟΥΣΑΓΩΝΑΣ<br>ΛΔΕΚΙΑΝΟΥ                                       | ΟΚΟΡΝΗΛΙΟΣ<br>ΙΕΡΗΣ<br>ΥΤΟΚΡΑΤΟ |
| ΕΩΕΥΤΥΧΙΔΗ ΙΣΤΗΛΛΗΝΑΝΕ ΙΚΟΥΝΤΟΣΕΡΜ ΟΛΛΩΝΙΟΥΙΕΡΗΣ ΤΡΟΣΣΩΣΙΓΕΝΟΥ ΣΛΑΒΟΝΤΟΣΑΙΔ | ΣΕΥΤΥΧΙΔΟΥ<br>ΣΤΗΣΕΝ<br>ΔΩΡΟΥΤΟΥ<br>ΕΝΟΥΤΗΣ<br>ΟΥΜΕΝΕΥΦΡΟ<br>ΛΙΟΥΙΟΥΛΙΟΥ | 71087810                        |
| ΑΡΧΟΥΝΤΟΣ<br>ΥΓΙΓΑΡΟΕΡ<br>ΡΓΟΥΙΕΡΗΣ<br>ΡΙΟΣΚΟΔΡ<br>ΑΤΟΚΑΙΣΑΡ                |  |                                 |

W Constantinople, Keil, 1895.

- (2) ΗΛΙΟΣΝΙΓΕΡΙΕΡΗΣΑΤΟΚΑΙΕΑΚΑΙΕΠΕΤΕ
  ΛΕΣΕΤΟΥΣΑΓΩΝΑΣΑΡΧΟΥΝΤΟΣΚΑ®ΑΡΧΟΥΝΤΟΣ
  ΑΥΤΟΚΡΑΤΟΡΟΣΚΑΙΤΙΤΟΥΑΙΛΑΔΡΙΑΝΟΥ\*ΣΩΣΙ
  ΓΕΝΟΥΤΟΥΜΕΝΟΦΡΟΣΙΕΡΗΣΑΜΕΝΟΥΤΗΣΤΡΟΣ
  ΡΙΟΣΚΟΔΡΑΤΟΥΑΤΟΚΑΙΕΑΡΚΑΙΕΑΚΑΙΕΠΕΤΕ
  ΛΕΣΕΤΟΥΣΑΓΩΝΑΣΑΝΤΩΝΟΙΚΟΥΣΘΕΟΚΡΙ
  ΤΟΥΘΕΟΚΠΟΥΙΕΡΗΣΑΤΟΚΑΙΕΑΚΑΙΕΠΕΤΕ
  ΛΕΣΕΤΟΥΣΑΓΩΝΑΣ
- (1) is a careful copy, and the small space between (a) and (γ) is easily restored: in (γ) I have divided ll. 6, 7, which are printed by Gedeon as a single line: (2) is a very unintelligent copy (further perverted by the frequent recurrence of formulae which has distracted the copyist's eye) and evidently neglectful of spaces where the inscription is illegible: the first four lines are a mangled version of ll. 1-8 in (1), the rest carries us further. I have inserted I(β) quite conjecturally in an obvious but not indicated lacuna in I(a), supplying the Emperor's name from (2), where a comparison with I(a) shews it is misplaced.

The following is an attempt at combination :-

-Κορν]ήλιος Νίγερ ιε ρήσ ατο Καίσαρος και επετέλεσε τ ούς αγώνας. ίππ]αρχούντος [Κ]λ. Δεκιανο[ΰ Εύν εω Εύτυχίδης Εύτυχίδου τη ν στηλλην άνέστησεν. ίππαρ (χ)ούντος Έρμ ο δώρου (τ)ού 'Απ ολλωνίου, ίερησ αμ ένου της Μη τρός Σωσυγένου ς τ οῦ Μενέ τ φροί νος προ σλαβόντος Αί<δ>λίου Ίουλίου ... . . Koprilios Nivep ... ιερή σατο Καίσαρος και έπε-] [τέλεσε τούς άγωνας] ίπ π πρχούντος αύτοκράτορος Kui. Titov Aix. Aspravus [Avτωνείνου!], ίερησ[αμένου της Μητ ρ<ι>ος Κοδρατου, ..... ίερησ ατο Καίσαρος και έπετέλεσε τούς άγωνας [ππαρχούντος] Αντων(είνου !) Σ[ε-Βαστού 11] Θεάκριτο(ς) Θεάκρ ((τ)ου ιερήσατο Και σ α ρος και έπετέλεσε τους αγώνας.

For the form ieμήσατο, cl. J.H.S. xvii. 271, 12. ίεμησάμενον.

From the inscription we gain the following information

- 1. That the worship of the Proconnesian Mother (Paus. viii. 46) was important down to Imperial times, and that the priest was either the eponymous of Proconnesus or intimately associated with the Imperial cult: the Imperial festival mentioned, it should be remarked, was certainly not annual, as is shown by the intercalated Hipparch Euneos; the mention of the setting up of the stelle suggests that the cult was only established in Hadrianic times. A dedication to Antoninus is published by Gedeon (op. vol. p. 101, Pl. II. 11.)
  - 2. Several new Hipparchs' names, viz. :
- (a) Claudius Decianus (Euneos?); a Claudius Euneos was certainly strategus at Cyzicus under Hadrian (Coins e.g. B.M. 214; cf. also a base at Yeni Keni, Ath. Mitth. vii. 254, 24).
  - (b) Hermodorus Apollonii.
- (c) Antoninus: on the poor authority of (2), but in consideration of other Imperial hipparchates at Cyzicus (Caligula, Ditt. 2, 365, Drusus, J.H.S. xxiv. 28). Antoninus was certainly at Cyzicus as proconsul in 120 (Waddington, Fastes No. 135).

F. W. HASLUCK.

### CLAY-SEALINGS FROM THE FAYUM,

DURING the excavations of Messrs. Hogarth Grenfell and Hunt for the Egypt Exploration Fund in the winter of 1895-6 on the site of Karanis (Kom Ushim) in the Fayum, a considerable number of clay-sealings were found, mainly in the cellars of the Roman houses. These were recently put in my hands for investigation and offer some interesting material.

The sealings have evidently come from various kinds of articles; in many instances the clay is too much broken for any determination of the shape which it had taken to be possible; but among the better preserved pieces are examples from the months of bottles, some of which have been squeezed down into the neck like a cork, others placed over a linen covering, sometimes tied down with cord; others are from the flat sides of wooden boxes, often showing the marks of cord; others again from parcels of irregular shape, in some cases seemingly wrapped in papyrus. The common points of all are that they consist of lumps of Nile-mud, and that they have been impressed, while the clay was damp, with signets, which were presumably those of the merchants who forwarded the goods upon which the sealings were placed. It is these impressions which give the interest to this collection, and they are therefore catalogued in the following list.

It should be premised that the material is not a good one for taking sharp impressions from intuglies, and therefore the descriptions of the work must in some cases be rather vague. Some of the scalings, also, are breaking up through the impregnation of the clay with sult; and in a few instances the only example of a type preserved is incomplete. The list, however, attempts to give, so far as is possible, in addition to a description of the type and size of the scal, a rough classification of the workmanship: the number of impressions of each type is added. In the descriptions, the position of the objects is as they appear on the scaling.

# A .- Gracco-Egyptian and Egyptian Deities.

L. Head of Sarapis, facing, crowned with modius,

Oval. 14×11 mm. Fairly good. (5)

S. Bust of Sarapis to right, wearing modius: hair bound with menia.

Oval. 12×8 mm. Poor. (3)

3. Bust of Sarapis to right, wearing modius: hair bound with taonia.

Oval. 15×11 mm. Fairly good. (1)

|      | Contract Con | -            |
|------|--|--------------|
| He:  | Head of Sample to right, wearing modius.  Oval. 15 × 10 mm. Poor.  | (6)          |
| .0=  | Head of Sarapie to right, wearing modins, surrounded by legend AIWNCAP,<br>Oval. 12×10 mm. Moderate.   | AПІС<br>(б)  |
| 36   | Bust of Sarapis facing (impression from a signer in high relief).  | (0)          |
| Ť    | Head of Helios Sampis to right, wearing modius and radiate grown; in front an (defamil).   | and the same |
| 18.  | Oval, 15×11 mm. Good.  Sample scated to right on throne with high back, with left hand stretched out (   | (2)          |
| AL.  | impression defaced).   |              |
| 0    | Ovel. 15 x 12 mm. Fair (f)  Jugate busis to right of Sample, wearing modius and taenia, and Isla, crowned  | (1)          |
| 100  | disk and home: both draped.  | I WHILE      |
|      | Oval. 12:5 × 10:5 jnm, Fair.   | (1.1)        |
| 10.  | Jugate lasts to right of Sarapis, wearing tamin, and Isls, growned with dis<br>horns; both draped.   | de moi       |
|      | Ovil: 16×115:mm. Fairly good:  | (2)          |
| II   | Busts of Sampia to right, growned with modius: behind, bust of Isia to right, or<br>with horns and plumes: before, bust of hawk-headed Horus to left, crowns<br>modius.  |              |
|      | Circular, 14 mm. Rough,  | (8)          |
| 12   | draped, divided by vertical line.  | right.       |
| 3001 | Circular, 11 inm. Fairly good.   | (3)          |
| 13   | turnul inwards below the host in two lines the name  | tientie      |
|      | Restaugular 16×12 mm. Poor.  | (1)          |
| BL   | Sarapis standing facing, with head turned to left, crowned with modius, w  | rearing      |
|      | chlamys thrown over left arm, in right hand holding paters over altar : on le<br>standing to right, crowned with disk and horns, wearing long chiton, hold   |              |
|      | left hand a wreath over head of Sampis, and on right arm a coruncopiae.  Circular. 11 mm. Fair.  | (4)          |
| ES.  |  | 7.4.5.6.0    |
| -    | spread and raised, head to left.   | 0.000        |
|      | Oval. 13×12 mm. Cearse.  | (2)          |
| 100  | Head of Sampis to right; in front, defaced object; below, eagle standing to left, with wings spread, head to right.  | med to       |
|      | Oval. 15×11 tum. Course.   | (1)          |
| 17.  | Head of Sarapis to right, wearing tagula and crowned with modius, faced I standing to left, above which a crossent.  | by rum       |
|      | Oval. 15×11 mm, Fair.  | (4)          |
| 18.  | Head of Sample to left, crowned with modius, faced by griffin standing to right<br>Oval. 15×11 mm. Moderate.   |              |
| 10,  | Bust of Sampis to right, wearing tuents and crowned with modius, stanked a   | 1.7          |
|      | side by urnous creet turned inwards.  Circular. 19 mm. Hairly good.  | (Fee)        |
| 20.  | Circular. 19 mm. Hairly good.  Bust of Sample to right, wearing taenia and growned with modius, flanked of   | m each       |
|      | side by nrasus erect turned inwards: bemeath, a horizontal line: below this with wings spread.   | , seaml      |
|      | Oval. 10×14 mm. Poor.  | (2)          |
| 1    | H.S.—VOL. XXVI. D  |              |

| 321.   | Bast of Sarapis to right, crowned with modius; behind, a rulture (1) to right, in front, |
|--------|--|
|        | a hawk to left, both standing on a horizontal line: from the middle of this, a           |
|        | vertical line dividing lower part of field, on each side of which a lion walking         |
|        | inwards; at hottom, search with wings aproved.   |
|        | Oval. 17 × 18 mm. Poor. (1)  |
| 99     | Head of Sample to right flanked by meet must turned inwards below, two lions             |
| -      | standing facing each other; at bottom, search with wings spread.                         |
|        | Oval. 17 x 12 mm. Poor. (7)  |
| 22.    | Isla scated to right on high-backed throne, crowned with disk and horns and wearing      |
| =111.0 | a long chiton; she nurses an infant Harpokrates crowned with skhent, raising his         |
|        | right hand and holding in his left a lotus-flower (f) : in front 1H (or HI).             |
|        | Oval. 16×12 mm. Rough. (8)   |
| 21     | Inis seated nursing Horne as on 23, but Horne holds nothing in his left hand,            |
| CWS.   | Oval. 18×12 mm. Fair. (1)  |
| 25.    | Bust of Horns, body facing, head to right, crowned with disk, and wearing deep           |
| 5496   | collar: side-lock shown.   |
|        | Oval, 15×11 mm. Fair. (3)  |
| :00    |  |
| 28.    | Bust of Horns, body facing, head to right, wearing deep collar: side-lock shown.         |
| 1000   | Oval 10×7 mm. Moderate, (4)  |
| 27,    | Bust of Horns, body facing, head to right, wearing deep collar, side lock shown ;        |
|        | in front, serpent.   |
| 5.0    | Oyal: 15×11 mm. Coarss. (1)  |
| 28.    | Bust of Horns as on 27, with sorpent in front.   |
|        | Oval. 12×9 mm. Fairly good. (1)  |
| 29     |  |
|        | wearing deep collar.   |
|        | Oval. 14×10 mm. Fair. (9)  |
| 30_    | Bust of Horus, serpent-headed, body faring, head to right, wearing deep collar.          |
|        | Oval. 12 × 9 mm, Moderate. (15)  |
| 31_    | Horas sented to right on ground, with knoss drawn up, crowned with skhent, holding       |
|        | unt serpent in his right hand,   |
|        | Oval. 13×9 mm. Rough. (28)   |
| 32     | Horas seated with sorpent as on 3L   |
|        | Oval. 19×6 mm, Poor, [8]   |
| 33.    | Horse standing facing, head to right, nude, helding up a serpent in each hand.           |
|        | Oval. 12×9 mm. Fair. (13)  |
| 34.    | Horm standing with serpents as on 23.  |
|        | Oval. 14×10 mm. Rough. (5)   |
| 35.    | Horns seated to left on throne, wearing long robe - behind him, gazette to right         |
|        | (apper part only shown); before him, baboon sealed on its hannahes to right-             |
|        | above this (tile (t) to right; over his head, an indefinite object; he holds out a       |
|        | snake (or ecorpion) with both hands.   |
|        | Oval. 15×13 mm. Posz, (10)   |
| 36.    |  |
|        | griffin scated to right, with left front paw raised: above its head, among erect to      |
|        | right: between this and hand of Horos, search: above this, sorpion to right.             |
|        | Oval. 10×11 mm. Fair. (6)  |
| 37,    | Horne seated to right, node, with knees drawn up, disk on boul ; facing him, hawk        |
|        | standing to left; over it, diek and urasus (7) to left.                                  |
|        | Oval. 17 × 13 mm. Course. (1)  |
| 33.    | Bust of Harpokrates to right, crowned with skhent, finger to live.                       |
|        | Oval 8×5 mm. Poor, (6)   |
|        |  |

|     | CLAY-SEALINGS  | FROM THE FAYUM                                   | 35           |  |
|-----|--|--|--------------|--|
| 39. | Harpokrates standing to left, nude,  | with right hand to lips, and cornaco             | on saig      |  |
|     | Oral. 12×8 mm. 3   | Mir.   | (13)         |  |
| 40. | Harpokraies (f) standing to left, nude,<br>in front, alter.  | with right hand missd, left resting on a         | septro :     |  |
|     |  | SAH:   | (1)          |  |
| 411 | Harpokentes seated to left, on lotus-d<br>lips, holding and in left.   | lower, mule, disk on head, with right I          | mend to      |  |
|     | Oval. 13 × 10 mm. I  | oor.   | [2]          |  |
| 42; | Harpokrates seated on horse advancin<br>turned book, hand to lips.   | g to right, node, crowned with skhent (          | T), head     |  |
|     |  | Inde.  | (12)         |  |
| 43. | Harpokrates mated to right, apparently<br>lips, right holding scourge over should  | lder, on row walking to right.                   |              |  |
|     |  | atr.   | (1)          |  |
| 44. | Harpokrates scated to left, mule, with<br>couched to right.  |  |              |  |
|     |  | 00t;   | (1)          |  |
| 452 | Bust of Hershef, ranishoaded, facing, a<br>crown.  |  |              |  |
| 200 |  | mgh.   | 1(2)         |  |
| 95% | Oval, 15 × 12 mm. F  | út.  | (1)          |  |
| 47. | Bust of Zeus Ammun to right, draped,<br>Restaugular, 12×10 mm. F   | crywnod with disk.                               | 73           |  |
| 48. |  | and with disk: below, ram standing to            |              |  |
|     |  | onghi  | 100          |  |
| 49  | Anubis, jackal-headed, standing facing   |  |              |  |
|     | right hand, in left caduceus: chlamy   |  | (18)         |  |
| 50. | Hermanulus standing facing, head to  | left, nude, with legs crossed, and left          |              |  |
|     | resting on pillar : in right hand pal<br>Oval. 15×12 mm. Fr  | m-branch, in left ambrooms (f)                   | (1)          |  |
| 31. | Bust of Osiris, faming, wearing atef (1)   | grown, stourge over each shoulder.               |              |  |
|     | Oval. 14 × 12 mm. Br   | ide.   | (b)          |  |
|     | B.—Greek Deities and Mythical Figures.   |  |              |  |
| 52. | Bust of Athene to right, wearing believe<br>Oval. 12×10 mm. Pa   | iii.   | (10)         |  |
| 53. | serpent erect in front.  | ng chiton, left hand raised, with right          | seizing      |  |
|     |  |  | (41)         |  |
| 31. | The state of the s | , chlumys over shoulders (of archaistic s<br>ur. | tyle)<br>(3) |  |
| 55, | Bust of Helios to right, wearing radiate<br>Oval. 13×9 mm. Fr  | e crown, chiamys over shoulders,<br>sir,         | (8)          |  |
| 56. | Head of Herakies to right, boarded, wo   | aring tuenin.                                    |              |  |
|     |  | hates.   | (3)          |  |
| 57. | Head of Hernkles to right, bearded.  |  |              |  |
|     | Oyal. 15×11 mm. Fa   | dr.  | (2)          |  |
|     |  | p 2  |              |  |

| 3.6    | 16. MI   | 3(112)14   |      |
|--------|--|--|------|
| 583    | Herakles standing facing, head to right,   | mide, halding out on left hand figure of Nik   | ė,   |
| LI LIL | in right hand tion-skin and dub.   |  |      |
|        | Oval 15 x 9 mm. F  | sir, (2)   |      |
| 59.    | Tyche standing to right, wearing long  | chitan and peplos, crowned with modius:  | ATA. |
|        | left hand rudder, on right arm cornt   | modiae.  |      |
|        |  | nin (7)  |      |
| 60.    | Tyche standing to laft, wearing long   | chiton, crowned with modius; in right hat  | 118  |
|        | rudder, on left arm cornacopias  | Children and Child |      |
|        | Oyal 18×14 mm. F   | airly good. (1)  |      |
| 101.   | Leda reclining to left, with robe over   | Edemie. (7)  |      |
| 1266   | MAN CANAL MAN  | Lodorate: (**)   |      |
| 62,    | Gargonelon. Oval. 18×14 mm. F  | air. (2)   |      |
|        | Charles account money  |  |      |
|        | C.—Egyptic   | an Animal Form.  |      |
| 63_    | Dam streetling to left, with bear turn   | od back : round upper edge from right, wi  | th.  |
|        | letters outwards, the legand \$1086  |  |      |
|        |  | air. (t)   |      |
| 1960   | THE RESERVE OF THE PROPERTY OF | ), crowned with (lisk (7), to right, head turn   |      |
| 154    | Land Labout bond crospant b  | egs twisted underneath; below, two lin   | TIP. |
|        | (perhaps ⇔)  |  |      |
|        | Oval. 16 x 13 mm. 1  | tangh. (7)   |      |
| 65.    | Winged graths seated to right on harm  | cher   |      |
|        | Oval. 15 × 14 mm. 4  | tough. (4)   |      |
| 1945   | Winged griffin, sented to right on ham   | mbes right fore-paw on wheel.  |      |
|        | Oval. 16 × 15 mm. 3  | Indensia. (1)  |      |
| 54     | Winged griffin, conclud to right.  |  |      |
|        | The state of the s | Fair: (10)   | -    |
| 68.    |  | 46   |      |
|        |  | Poor. (1)  | 11   |
| 690    |  | below, scarab with wings spread.   |      |
|        | The American Company of the Company  | Pair. (3   |      |
| 70.    |  | ht: below, scamb with wings spread : beli-   | HO   |
|        | head, crescent (?).<br>Oval. 14×11 tem.  | Moderate. (7   | 11   |
| 27     |  | ht, with Egyptian headdress; tail turned o   |      |
| - VL   | back, with thresfold and a in right  | naw, ankle /2 apright.   | 7    |
|        |  | Moderate, (1   | 1    |
| 79     |  | nt on head: α key (?) horizontally across fie  |      |
| 13.5   | at edge, below, on right, Ol, abov   | e, on left, 9 (i.e. FOP reversed).   |      |
|        |  | Fair. (3   | 7    |
| 73     | Two urnel, erect, crowned with disks   | facing one another,  |      |
|        |  | Fnir. (3   | 7    |
| 74     | Two armsi erect, facing one another.   |  |      |
|        |  | Poor, (2   | ¥-   |
| 7.0    |  |  |      |
|        |  | Poor. (1   | 3    |
| -70    |  |  |      |
|        |  | Poor, (2   |      |
| 121    | Two ursel as 74. But crowned with or   | owns of Upper and Lower Egypt respectively   |      |
|        | Oval. 15×10 mm.  | Course. (2   | 1    |
|        |  |  |      |

| 78.     | Stamp divided into two compartments vertically   in left one, around surprist   in right   190 downwards   surrounded by line-border   1 Operand   | (uv).        |
|---------|--|--------------|
|         | Rectangular, 30 × 25 mm, Rough.  | (42)         |
| 79,     | Tracts expent with head of Sarapis, erect to left, crowned with medius, co-<br>by urasus with head of Isis, erect to right, crowned with disk and horus a<br>basket-base.  | both on      |
|         | Ocai, 16×12 mm. Moderate,  | (3)          |
| 900     | Serpent with human hand erect to right, crowned with plumes, confronted  |              |
| 80.     |  | NA SHIELD IN |
|         | stunding to left. Oval. 16×13 mm. Ruie.  | (3)          |
| 5572    | The state of the s | 3333         |
| -81     | Agatholiasmon serpent with human head erest to right, crowned with me  | errors (55%  |
|         | holding in its calls stalks of corn.   | 100          |
|         | Oval. 16 × 11 mm. Fair.  | (29)         |
|         |  |              |
|         | D.—Misrellaneous Somes.  |              |
| 82.     | Figure of a man with right hand raised, in chariot drawn by two horses adva-<br>left.  | menny to     |
|         | Chemlar, 12 mm, Poor,  | (1)          |
| 42      | Figure riding to right, with right hand raised, apparently on a built with it  | a full in    |
| 1996    | the air : before this a male figure reclining to left, with right hand ours  | Lindridget   |
|         | and cornmopias (2) on left arm (perhaps Nilus).  |              |
|         | Oval. 16×10 mm. Moderate.  | 745          |
| 73974   |  | . amuillar   |
| 84      | Beardod figure standing to left, wearing short chiton and extending hand to  | anhinet -    |
|         | figure in front standing to right with hand raised : on the left, an indefinite  | beneath      |
|         | on the right, a palin-tree and a hawk (1) standing to left : below a line.   | altaw/III    |
|         | which two figures looking towards one another with hands raised over an  | mine its     |
|         | and to right of these three figures facing with both arms raised.  | 683          |
|         | Oval. 18×15 mm. Rufe.  | 163          |
| 85      | Three figures standing facing, in long robes.  | 200          |
|         | Circular, 12 mm. Moderate.   | (#)          |
| 388     | Three figures standing focing, in long robes : the centre one with both arm  | a raised,    |
|         | the outer ones with outer arm missed in each case.   |              |
|         | Circular, 13 mm. Rude.   | (4)          |
| 37      | Nike flying to right, in long chiton, holding out wreath over figure lying on  | ground       |
|         | Oval. 15×10 mm. Eair.  | (0)          |
| AA.     | In centre, tree, on right of which a man (1) standing to right, with alter in fi   | no i trive   |
| 10000   | left, an animal standing to right with head turned back.   |              |
|         | Oval. 13×10 mm. Poor.  | (1)          |
| 1991    | Lion springing to right on gazelle conched to right with hand turned back.   |              |
| 1557    | Oval. 16×12 mm. Fair.  | (6)          |
| 2000    | Modine filled with corn : serpent issuing to right : below, indefinite object.   | 1000         |
| 1900    |  | (2)          |
|         | Oval. 17×11 nm. Moderate,  | 7/25         |
|         |  |              |
|         | E.—Buite; passibly Pertinds.   |              |
|         | See - America - general at the control   |              |
| 391.    | Female bust to right, hair bound with taenia (possibly Cleopatm VII).  | 7,000        |
|         | Oval. 21×16 mm. Moderate,  | (1)          |
| 1100011 | Bast to right, with Egyptian royal headdress: in front, ANO  |              |
| AL DA   | Oval. 15×11 mm. Fair.  | (4)          |
| 100     |  | 4.74         |
| 193.    |  | (1)          |
|         | Oval, 14×10 mm. Fair.  | 1952         |
|         |  |              |
|         |  |              |

| 941  | Bust (male 7) to right.             |  |      |
|------|-------------------------------------|--|------|
|      | Oval. 12×8 mm.                      | [Worn.]  | (5)  |
| 95.  | Male bost to right.                 | Vana de la companya del companya de la companya del companya de la | 345  |
|      | Oval. 15×11 imm.                    | [Worn.]  | (0): |
|      |                                     |  |      |
|      | E.—Namor                            | and Linear Devices.  |      |
|      | DIMM                                |  |      |
| 96.  | Name in two Imes WNO                | (Spire)  |      |
|      | Bestangular, 10×6 mm                |  | (5)  |
|      |                                     | ON/S   | 100  |
| 97.  | Part of stamp in two lines : appare | mily TRI   |      |
|      | Oval, 15 × 10 mm                    | 1.551.9  | (1): |
|      |                                     | nul.   |      |
| 95-  | Fragment of stamp with more         | TELS   |      |
|      | Circular (1)                        |  | (1)  |
| 99.  | Key shown horizontally, handle to   | right : above, MIASAS, below, WTASBS   |      |
|      | Rectangular, 14×5 mm.               |  | (9)  |
| 1000 | Linear device.                      |  |      |
| 1    | Bectangular, 11×5 mm.               |  | (3)  |
|      |                                     |  |      |

Ten stamps too much damaged for identification.

The main importance of this group of scalings lies in the evidence given by them as to the kind of devices favoured for signet-rings among members of the merchant class in Egypt: incidentally, some light is thereby thrown on the popularity of various deities in the same society. Whether the rings were specially made to order—as must have been the case where they were engraved with the owner's name—or selected by purchasers from a stack kept ready by the dealer, it may reasonably be assumed that, as a rule, a man's religious partialities would influence his choice of a signet, and that engravers, when preparing a supply of goods, would have a special regard to the ideas and beliefs most generally current among their customers. It will be observed that types connected with Egyptian or Greek religion and mythology form the great majority in the foregoing catalogue.

Fortunately, it is possible to compare with this collection a list of signets from another district. In the first half of the second century a.n. it was customary at Oxyrhynchus for the witnesses to a will to specify their σφραγίδες; and nine of the published Oxyrhynchus papyri (Nos. 105, 489–492, 494, 634, 646, 649) thus give particulars of thirty-five examples. The following is the list of the devices:—

Sarapis (6 examples): Isis (2): Harpokrates (3): Harpokrates standing: Harpokrates on a lotus: Ammon: Helios Ammon: Zeus. Zeus on an eagle: Atheno (3): Apollo: Hormes (3): Herakles (2): Dionyaus: Silenus: Tyche with a rudder: Thonis: Enkanopos: δρακοντόμορφος (probably a serpent with human head): a philosopher (2): Διουνσοπλάτως.

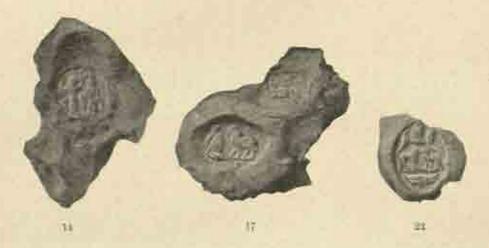
This list shows much the same kind of types as the Fayum scalings, and the owners of the Oxyrhynchus signets were doubtless of the same social rank as the merchants who scaled the jars and boxes for the Fayum trade: at any rate, it is clear from the contents of the wills that the testators were 'middle class' people, living in the town and possessed of some small property; and they would presumably find the witnesses to their signatures

among members of their own class.

These Oxyrhynchus signets are also not far removed in date from the Faynm sealings. The latter appear to be of the middle of the second century A.D.; the scanty epigraphic evidence given by the names or legends engraved on the seals points generally to this period; and a closer determination can be obtained from the types. These show, as will be more fully stated later, a general relation to the reverse-types of the Alexandrian coins: and in two instances-Nos. 13 and 14-the resemblance is so close that the devices on the signets must either have been borrowed from the coins or derived from the same source. The coins in question (Dattari Numi Alexandrini 2863 = British Museum Catalogue (Alexandria) 1108, and Dattari 3530) are both large bronze pieces of Antoniuus Pius; and, like many of this series and reign, have for their reverse-types somewhat elaborate groups of a kind almost unknown in earlier and later periods of the Alexandrian mint. It is not practicable here to discuss at length the general question of the derivation of such types; but there is much reason to suppose that the die-engravers to the mint in this reign did not as a rule take their types directly from any existing works of art, but designed them freely and with some originality. If this is granted, the signet-devices must have been borrowed from the coins, and were probably engraved very shortly after the issue of the latter, as the Alexandrian bronze coinage of the second century were badly and soon became defaced; their date may therefore be taken as about the and of the reign of Autoninus Pius.

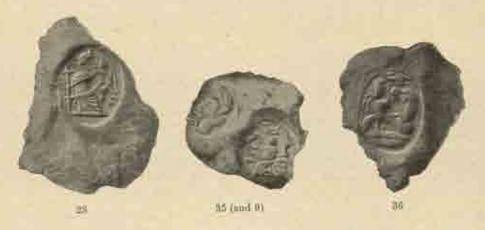
The types have been roughly classified in the catalogue; but it is worth while to examine some of them in more detail. There is a distinct preponderance of Egyptian and Graeco-Egyptian religious subjects (classes A and C) among them; and the largest part of these is supplied by representations of the Alexandrian triad-Sarapis, Isis, and Harpokrates or Horns. It may be observed that, while Sarapis and Harpokrates are frequently represented alone. Isis only appears either by the sade of Sarapis or nursing Harpokrates. This circumstance may be illustrated by the relative frequency and mature of references to these deities in papyri, and by other extant representations. Sarapis was, practically, the official supreme deity: if the writer of a letter expressed a wish for the health of a friend, this almost invariably took the form of a prayer to Sarapis. His temple at Alexandria was the chief one of the town, the neocorate of which was a sufficient honour to be accepted by Roman officials; and most provincial towns seem to have had similar Sarapicia which, if Oxyrhynchus is a typical example, served as centres of the social life of the towns in which they stood. But, while temple statues of Sarapis must have been common and a comparatively large number of remains of large figures of him are extant, minor representations in bronze or terracotta are proportionately rare; and almost all conform to one or two fixed types, one seated the other standing. It would perhaps be fair to describe Sarapis as a god who was worshipped in tempies. Isis is much more frequently mentioned than Sarapis, though commonly with the addition of one of her myriad names, marking her as a local form of the goddess which had possibly been quite distinct in origin; and her worship was usually joined and subordinated to that of some male god. Her temples, or rather shrines, were apparently of small official account: in the ordinances of Ptolemy Euergetes II they are classed with animal shrines, and such evidence as is given by the papyri concerning them goes to show that they were not endowed, but depended for their support on the offerings of the pious and the begging of the priests. The essential importance of the Isis worship seems to have been in the fact that it was a link with an earlier period of Egyptian religion: she was a native goldess, who was allowed to remain in the official triad; and, though crowded out of the first place in the temples, was kept in evidence by the priests. She had become the goddess of the wayside. The popular god, however, was Horus, especially in the form of Harpokrates. terracotta statuettes of him, in a multitude of types, abound at every Graeco-Roman site in Egypt, though there are few references to his worship in the written records, and he was rarely the principal deity to whom a temple was dedicated. He was essentially the god of the house.

The types of Sarapis on the scalings do not call for much ramark: as noted above, they generally follow regular types. There was a tendency in the Roman period to develop a pantheistic form, beginning with the fusion of Zeus and Helios with Sarapis, and extending later to the inclusion of Ammon and

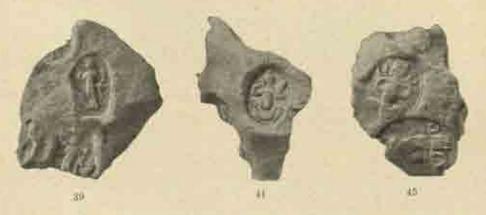


Poseidon: the head of Helios Sarapis (7) is an instance of this in the earlier stages, with which may be compared the Helios Ammon of the Oxyrhynchus lists. As has been remarked previously, the representation of a bust of Sarapis flanked by figures of the Dioscuri (13) is interesting, on account of its correspondence with the reverse-type of a coin of Antonians Phis, a name taking on the seal the place of the date on the coin; and the group of Sarapis crowned by Isis (14) is also traceable to a coin-type. The association of the bust of Sarapis with an eagle, a ram, or a griffin can likewise be paralleled on coins; but the more complex groups, especially those in which the lion occurs (21 and 22), are exceptional, and are probably due to Gnostic influence.

Some Gnostic connexions are also traceable in the Horns-types, especially on Nos. 35 and 36, where the association with the gazelle in one case and the scorpion in the other are particularly noticeable. In nearly all examples a serpent appears, either in the field or held by Horns, which may also be



put down as a Gnostic symbol. The types which are marked by the position of the band of the deity against his lips as representing Harpokrates are more distinctively Graeco-Egyptian, both in style and attributes, and can generally be paralleled from Alexandrian coins, which show nothing corresponding to



the Horus-types. One or two of the forms of Harpokrates may be assignable to special localities—the Harpokrates on the lotus (\$1) is taken to represent

Harpokrates of Tana, and the Harpokrates on the undrosphinz Harpokrates of Buto, while the figure on the ram carrying a scourge may be Harpokrates of Mendes; but, as these types were used on the Alexandrian coimage, they would be disseminated through Egypt, and cannot be taken as marking definitely a connexion between the scalings and the special centres of the worship of Harpokrates. The type of Harpokrates on the lotus reappears on the Oxyrhyuchus signets. The bust of Hershef (45) is of a more distinctly local character, and is not, so far as known at present, a coin-type; in this case there is some probability that the signet from which the impression was taken belonged to an inhabitant of Herakleopolis Magna, the seat of this deity.

The only remaining examples amongst those classed as of Graeco-Egyptian and Egyptian deities which offer points of interest are those of Anabis and Hermanubis (49 and 50), which stand in much the same relation as those of Horus and Harpokrates; the jackal-headed Anabis is the more

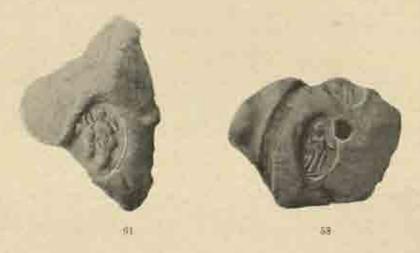




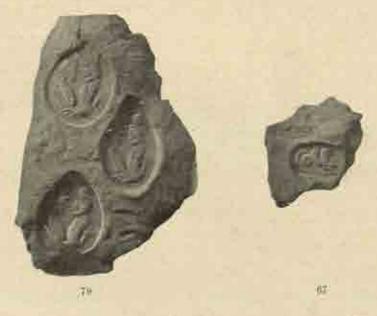
Egyptian form, and possibly is influenced by Gnostic ideas, while Hermanuhis appears in a Greek type closely related to that of Hermes and similar to that of the Alexandrian coins.

There are comparatively few among these sealings which can be called distinctly Greek : of those which have been placed under this head, the two types of Athene (52 and 53) are very probably assignable to the influence of her worship at Oxyrhynchua, where she was identified with the local goldless Thorris; this is the more likely as these types are very closely related to two which commonly appear on a class of leaden pieces of which large numhers have been found at Oxyrhynchus, and which almost certainly represent a local token-currency. The Tyche types (59 and 60) are probably taken from Alexandrian coins; and the types of Herakles, while not directly traceable to coins may perhaps have been suggested by the series of represenrations of the labours of Herakles issued from the Alexandrian mint under Antoninus Pius, unless they are due to the equation of Herakles with Hersbef at Harakleopolis Magna. It may be noted that Athene, Tyche, and Herakles, as well as Apollo, are all to be found among the Oxyrhynchus signets. The most definitely Hellenic of all the scalings is really the group of Leds with the swan (61); which was, for some reason, a very popular subject in Egyptian art down to Coptic times.

The class of animal-forms does not provide much of interest. The hawkheaded crocodile of No. 64 is probably Soknopaios, the local form of the crocodile god Sebek worshipped at Soknopaiou Nesos (Dimbh) in the Fayum,



ns he seems to have been represented in this shape. The comparative commonness of serpent-types—though both the human-headed serpent, the  $\delta\rho\alpha\kappa\rho\nu\tau\delta$ - $\mu\rho\rho\phi\alpha\phi$  of Oxyrhynchus, and the uracus with disk or royal crown are frequently



found on Alexandrian coins—may be due to some extent to Gnosticism: in one case at any rate (72) a Gnostic influence is marked by the addition of a key. It is possible that No. 78 is intended as a rebus—the screent with

the letters Opσ representing the name, common in the Fayum during the Graeco-Roman period, of 'Ορσενούφις.

In class D there are some puzzling groups, which need further explanation. No 82—a figure of a man in a biga—is probably borrowed from the coin-type representing an emperor which was among the commonest on Alexandrian large bronze of the second century. The attitude of the reclining





8E

figure on No. 83 suggests that it is 'Nilus—and in this case the figure riding towards him on a bull may be the genius of the inundation. The worn condition of the examples of Nos. 85 and 86, as well as the rough work of the signets, makes it impracticable to say what was intended by the groups of three figures; and the same difficulties prevent the interpretation of the more complicated scenes on Nos. 84 and 88.

Some of the busts classed under E may be intended for portraits, or they may be of a generic nature, as were presumably the 'philosophers' who appeared on two Oxyrhynchus signets. But, if their origin may be looked for on coins, the female bust on No. 91 shows considerable similarity to that of Cleopatra VII on her copper coins, while the busts with Egyptian royal head-dress of Nos 92 and 93 resemble the types of Arsinoite nome-coins struck under Hadrian—the possible comexion with which is strengthened in the case of No. 93 by the addition under the bust of a crocodile, also a type of the coins of the same nome in the same reign.

Among the last group, the only signet calling for special note is No. 99, which is the most distinctly Guestic of all, with the representation of a key flanked by two mystic words.

From the foregoing remarks, it will be seen that, in a large proportion of instances, the scalings show a close analogy to Alexandrian coin-types; the most noticeable exceptions being in the cases where Guestic influence is truceable, especially in the group of representations of Horus. And, so far as it is possible to judge of the style of the signets, there is a certain distinction of treatment which is parallel to this division of the types. The figures drawn from Greek mythology, and also those of the Alexandrian triad—Sarapis, Isis, and Harpokrates—are unmistakeably Greek in style; pose and dress are alike derived from Greek tradition; and the designs which are not to be

found on Alexandrian coins are executed in a manner so similar to that of the coin-types that the scale-engravers might be regarded as workmen of the same school as the men employed in the mint of Alexandria. On the other hand, the influence of native Egyptian ideas in the execution of the figures of Horus is equally clear in every way: the difference is not simply due to the endeavour of the artist to give a purely Egyptian character to his representation of the god, as may be seen if the treatment of the bust with Egyptian royal headdress (No. 92), which, notwithstanding the subject, is Greek in effect, is contrasted with that of any of the busts of Horus (Nos. 25 to 28).

It is of course impossible to say where the seals were made, or even where they were used. The accumulation of the clay impressions at Karanis only marks the spot where the goods were unpacked: they may have been packed and sealed anywhere in the Nile valley. And the types are, for the most part, such as can hardly be definitely localised; the bust of Hershef (No. 45) would be most likely to be used by an inhabitant of Herakleopolis Magna, the figure of Athene (Nos. 52 and 53) by one of Oxyrhynchus, that of Soknopaios (No. 64) by one of Soknopaiou Nesos; but Sarapis or Horus, Hofios or Tyche, a sphinx or a serpent, might be expected equally well in almost any district of Egypt. The Nile-mud of the scalings limits them to Egypt; but no closer definition is possible. And the signets themselves may have been made at Alexandria or by local workmen in the country towns; but except in one or two instances, there is nothing in style or subject to suggest any likelihood that they were imported into Egypt. It is fairly safe to say that they represent the kind of work executed for ordinary use in Egypt about the middle of the second century A.D.

J. G. MILNE.

Note.—The illustrations are derived from photographs, which have been slightly enlarged and touched up for purposes of reproduction by Mr. F. Anderson after examination of the original scalings. I have deposited a set of negatives, showing examples of all the types described, with the Hellenic Society.

### DETAILS OF THE OLYMPIAN TREASURIES.

In a preceding article (J.H.S. vol. xxv, pp. 294-319) the attempt was made to fix chronologically the order in which the Olympian "treasuries" were founded, and conclusions were summarily presented in connexion with a general consideration of the origin and function of 'treasuries' at Olympia and elsewhere. Now it is necessary to test these conclusions by a detailed examination of the architectural remains found on the terrace at Olympia, and in so doing to pass in review the successively founded Olympian communal houses called treasuries, taking them in the order thus theoretically arrived at, i.e. XII, X, XI, VII, VI, V, IX, IV, II, III, and I.

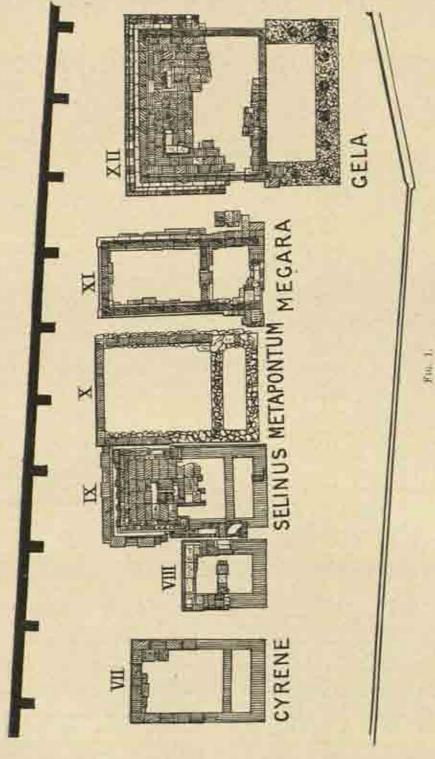
The Gelouns' House, No. XIII.:—The foundations of this fabric were identified at the eastern verge of the terrace in 1877-78, in which year various parts of its superstructure came to light at the opposite corner of the Altis; but not till 1881-83 was this superstructure—entablature-stones of several kinds and fragments of terracotta (painted and unpainted) belonging to the treasury-chamber, as well as triglyphs, metopes, columns, and capitals belonging to the porch—completely recognised and convincingly distributed between the old treasury-chamber and the later porch.<sup>3</sup> The stereobate of the Gelouns' porch has disappeared, and its extant foundations are mere footings of broken stones. In contrast with these are the foundations of the old 'treasury'-chamber or cella behind, consisting of blocks of a somewhat

(see Dr. Acier's secount of it, Ol. Text i, p. 25). entablature storms, triglyphic and metopus of poros were taken from the south porch of the Getoum treasury and built into the cast wall of this nuprovised erroughold. Larer, for the completism of its south-west wall, the builders of Lee I completed their dismurthment of the porch as well as of the older treasury-chamber behind it, and of the Megariam' treasury (XI) adjoining. Here were recovered further entablature stones and also drums and capitals of pures belonging to the south perch storesaid, and with their cutablature stones of a definedly harder peres, -- identical with that used to the foundations of the Old Geloams tressury. chamber, mixed up with broken bits of brilliantly-painted terracotta veneuring.

Practically all the available facts, together with the most various and valuable conclusions, and always says to animowledge adequately in detail, are derived from Olympics die Expedition Str. on dem Deutschen Exich reconstitution Avapratumy (A. Asher and Co., Berlin, 1892-1897). The five Transmission are referred to as Ol. Pert inv, the four volumes of plates of Ol. I'l inv, and the Athas as Ol. At. Of the plates and cuts in this truly monumental publication the freest me has been allowed and the kindness is hereby gratefully acknowledged.

See Fig. 1, and J.H.S. xxv, pp. 298 E., 303 f. and 308 f.

Whos, late in the lifth century a.r., the memors of Vandal pincy prompted the building of an Olympian fort or rather block-house



coarse poros with petrified molluses.4 Of this same poros are the entablature-blocks belonging to the old Geloans' treasury, and found in the west wall of Leo's fort. These are of three classes. I, with tops upslanting for the course of roof-tiles next to the caves, an interior dressed face sunk to provide seatings for the ends of ascending rafters and horizontal beams, and an exterior dressed face offering two vertical bands of about equal height, the lower being slightly recessed so as to leave a narrow intervening soffit, while it ends downward with a more extensive soffit, inward-slanting after the fashion of eaves. Blocks of this class (I) formed the entire entablature along the northern and southern sides of the quadrilateral chamber, while blocks of the two following classes, H and HI, formed the pedimental entablature along the eastern and western faces; but blocks of class II shewing a front face exactly reproducing the bands and soffits of class I, unite with these last in completing what must be called the architrave of the treasury-chamber, although it has no frieze. Blocks of class II differ from those of class I in their tops, which are not upstanting but fit the square dressed tympanum-blocks above. Blocks of class III shew a front face coproducing only the upper band and soffit of I and II, and are dressed at the inside so as to receive in suitable channellings the sides of all the courses of roof-tiling, being otherwise so dressed and combined as to form a coping for the obtuse angles of the tympana."

Common peculiarities of these entablature-blocks, classed I, II, and III, and shewn in Fig. 2, are: (a) the same iron nails (measuring 5 millimetres) in positions corresponding to perforations in the fragments of a brilliantly painted 7 terracotta scheme of veneuring applied to them all on a consistent

of the quadrinteral chamber. Add 9:30 matre for the spread of each of the cares, and the resulting 10:60 notice is not surprisingly at variance with the 71'19 metres of the Laganlan in Ol. At. In fact a discrepancy of 0.59 motice between appenstructure and foundations in so archaic a building can hardly be deemed disar-ditable or discomerting. By these calculations De Dorpfeld has bunished the last possible noubt as to assigning blocks I and III to the pedimental antablatures of the Geloans' treasury-chamber, and time, being thus assigned, carry with them, an certainly belonging to the sides of the same quadrilateral building, the blocks of class II, aithough so few of them have been recovered that their total length falls abort of that of the corresponding foundations by apwards of 11 metres.

The actorishing brilliancy and persistence, after more than two and a half thousand years, of the mait glimmering redears on these and other archaic terracottas used for architectural decorations in treece, Magna Grancia, and Sielly, derives from skill in their manufacture as well as from skill in the application of the solours.

See Dr. Dörpfeld's account, Ol. Text ii, p. 217.

Fig. Z. hottom:

By no means all the blocks of class I have licen remycred; those that am unbeing may perhaps be accounted for by the broken bits pinked up on the terrace close to the Uelonns' foundations. Lee's engineers may have flung then down. If so they were doubtless carried off by nameless and undated village-builders, since the Galcons' tressury is most easy of access from the old high-road still leading to Memka. The north and south walls, to which these blocks (I) corresponded, measured 13 17 nutres cash. The recovered blocks of class II monum 18 good metres, so that such of the two harizontal copings running under the tympune must have measured at least 9 matres. The foundations call for a width of 11:19 meters. This discrepancy can be partially corrected by calculations based on the numerous recovered atones of the tympuna; The height of each tympanum was I 43 metre, the guillent was 1 7, and therefore 10 metres is the length for the east and west sides or faces

plan similar to other schemes of the kind peculiar to Sicily and Magna-Graecia. (b) the same colour and consistency shewn (in that constituent part of the clay which had been only once and moderately fired) throughout the terracotta veneering common to all three classes of blocks as well as in that of the cornice which decorated them all.

Invented no doubt before stone had supplanted wood, and developed while still imperfect tools made the smooth dressing of stone a formidable undertaking, the fashion of sheathings or veneerings was carried to a great pitch of perfection in far eastern countries, and long survived in Sicily and Magna Grascia. Indeed, as applied to the Geloans' Olympian house and to the Schinuntine temple 'C,' this system has its sound practical justification. It probably protects the top of a fabric,—parts exposed to the weather,—better

in their mountactors these account clays were not-when compared with undescrated specimens of the same period, or with modern terracuttae decorated and undecorated-subjected to a high degree of temperature. But permanency requires great beat which involves loss of brilliancy, and so the facts are discoucerting. This manufacturer's puzzle is, howover, solved by noting that all these archaic terracottan were composed of two ingredients : (a) local clay of watying colours, -for the Geloans' treasury and at Gela, of a pronounced raidy has (this ruddy Geloun clay suggests manufacture at Gels and subsequent importstion : of a pinkish colour for the Megarians' trussery [XI]; of a yellowish-gray for the Olympian Heraeum and Comeil-House, - and (b) an invariable ingredient of black metal, or, to be more specific, an admixture of bright black grits or grains (measuring from 2 to 4 millimetres). Chemical analysis by a manufacturing expert of this ingredient (commun to all archain terracottus, made at Dr. Wiegand's request, reveals in the black metal of terracetta from the Geroom' trensury only 0.63 more of silinio and than is contained in "scharfglearnter Klinkerthou" & twice-learnt clay having in its second firing been subjected to a maximum heat. Plentiful admixture of such twice-burnt clay thus plays its part in produring brilliancy and persistency of colouring on all arcticle terracuttar by making it posible to dispense (when the two ingredients, (a) and (b), have been mixed together with the maximum heat in aring which would otherwise have been quite indispensable. (See pp. 182 L in Dr. Wiogani's Poramekitektur der Alvapolis zu Athen, Th. G. Fredher [Kassel and Leipzig, 1904], which will be referred to below as Il foganif.) Of squal importance in producing the yearite obtained was the skilled method usul, before the slay was burned, in applying the three colours, and in anishing the surface. The mixture of black metal and unburnt local clay was first modelled, then its sarriess was wushed over with a very thin slip or engobe of fine buff clay which formed a salfcoloured background of delicate yellow, instead of the decoratively hopeless motley of the unwashed metal. Then came the etching (or sstamping) of the pattern, which finally was painted in with the two remaining colours, red and black. All this done, and the model still having something like the leathery committency of sum-iried clay, a spatnia was deftly plied over all its surfaces which were smoothed, and took on their peculiarly subdued and glimmering polish. (On all these processes, see Dr. Greef in Ol. Text ii, pp. 189 ()

" See M. A. Choiey's Histoire de l'Architesture, i, pp. 285 ff., where, by a slip of the pen, an Olympian treasury of the Himemons is mentioned, the reference being doubtless to the treasury of the Selimentines. Emgments of terracetta vensuring which may have belonged to this treasury (IX) are discussed by Dr. Guef (Ot. Text ii, pp. 29) f.) and assigned doubtfully to treasury IV. Cortainly the recovered fragments of terracetta vencering belonging to temple "C" at Sellims (see M. Chairy's account suggest the probable curpleyment of a similar decoration at Olympia by the Seimuntines in their treasury (1X), and this film is confirmed by Dr. Grace's observation (Oh Text H. p. 180) that terracultus painted in three colours persuated in Simiy long after they had been supersuded in Greens by painted markle or stuccool perce. This being granted, treasury IX, though none of the earliest, may well have been verovered. It should be remembered that terracotra veneering was supersected very sarty in Greece proper by the application of filmy stucco, whereas the use of terracetta cornices lasted longer.

than any stucco such as was used in conjunction with it on less exposed parts by the Old Geloan builders at Olympia. Turning now to Figure 2, note the recessed band along the bottom of I and II, upon which a shadow from the veneered projection above is thrown. On this less exposed hand and the slightly upstanting soffit below it stucco was applied. Although nothing is known of the Geloon fabric between them and the foundations on side, this band and soffit, since they run completely around the building may conveniently be likened to an architrave. This 'architrave' of poros, be it noted, was carefully and smoothly prepared with a view to sightliness when stuccood, whereas the unstucced surfaces above it were left quite in the rough, as about to be masked in a sheath of veneering. On these unfinished surfaces was applied the terracotta sheathing brilliantly patterned in red, black and buff'10 as follows: (A), a macander or fret running borizontally (and therefore not shown in Figure 2 except in profile) between two containing astragal mouldings running also horizontally (a) and (b), striped both of them in the three colours, (a) being spirally and (b) vertically striped; (B), a pattern of spirals guilloched, or entrailed; into a central curichment of which are introduced, -through regularly recurring perforations,—the fastening nailheads." This guilloche covers a broad vertical band shown along the top of I, II, and III, it and is contained by two astragal mouldings (c) and (d) striped in the three colours.12

Turning now to the surmounting terracotta cornice nailed down along the tops of the veneered blocks I, II, III, note its band (C), and Egyptian cavetto, (D), with the astragal (e) intervening. and surmounted by (E), a narrow

In value as a protection, compared with the colours applied on the desirbed atoms, ordinarily is conditiation with the preliminary layer of fine stucce, remains still a matter of deads. Probably the venering affordat the greater prejection. Dr. Grasf (Of. Text it, pp. 183 f.) indicates that the stucce surface were less weathered where red had been applied that where blue had been used.

Designated plates are accessible not only in Ol. Pl. ii, Pl. exvit, but also in Hammeter's Designation. Fl. xlv. and in Meyer's Konnesational groces, a v. Ornamento, Fig. 23, Pl. I.

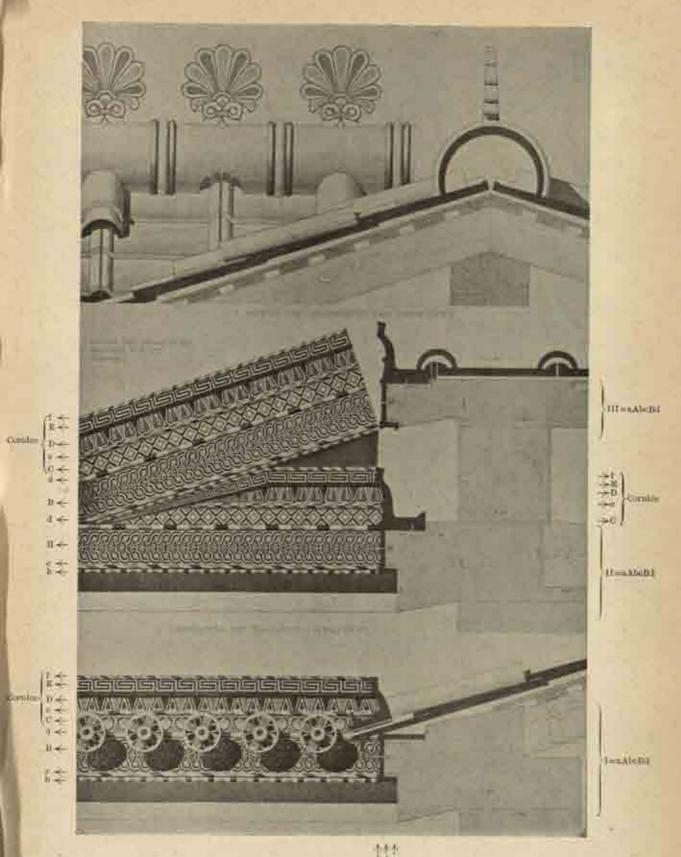
The Almost exactly this guilloche is shown on the venesting of temple C at Selima (see Bammaster, I I). See also Dr. Graef (N. Text I), pp. 188 and 200, Fig. 20) on the oldest specimen of venesting found at Olympia (but not assignable to any known fabric), which shows a cury similar but loss enriched guillocho. As for the fastening nails, note that this constitution of (a) (b) (c) (B) (d),—a normalization of (a) (b) (c) (B) (d),—a normalization of (a) (b) and changing a vertical guillocho (B) each running between two stragel monithings to and (b), and (a) and (d),—is all of the termouth shading that shawed—a third and not visible surface, however, remained, and this was undecormed. Through

this was driven vertically into the perce blocks below a row of sails which made doubly secure the whole of the venering,—attached already by malls driven berizontally through perforations an the vertical guilloched band. To this top venering surface was applied, so as to project backward beyond it, another thinst (indecorated) surface,—the horizontal foot of the terrasista cornice. Where this backward appearing foot stretched clear of the top venering aurhors underneath, a row of exim long calls was driven vertically into 1, 11, and 111 [see Fig. 2).

22 On III this vertical guilloche alanted appeareds to form the obtuse angle of the pediment.

if The lower netragal, (e), running below the guillacter, i.e. above and alongside of (b), exactly reproduces (a), except that its stripes are wider.

Ornices of this pooble, with the Egyptian excepts, though not further exemplified at Olympia, have been found at Gels and Syracuse, and one such is in the Palermo miscum (see Banneistin, & L.). Most Olympian princess, however, shew instead of the ravatle between two bands a symm recover, with or without a land below, surposented along the



Fro. 2.—The Old Geloans' House (XII) Venenum Establique-blocus, Cousins and Roof-villing.

fretted band contained at the top by (f), an astragal moulding striped and proportioned exactly like (a). Along the caves, the band (C) with projecting watersponts releases the rainfall, and masks the outward edge of the lowest course of roof-tiles. Here, being important, it is variegated not only by its striking pattern of reversed palmettes, but also by its waterspouts—a row of anemone-like discs painted as rosettes with red (mottled clay) campanula-shaped water conduits debouching at the centre. Below runs (d) and above (e). When we come to the pediment, where waterspouts are of course inadmissible, this band, losing with them its relative importance, carries instead of inverted palmettes a more monotonous and formal lozenged pattern.<sup>15</sup>

Such were the entablature and cornice, and such was the roof <sup>16</sup> of the old original Geloans' treasury-chamber, which measured 10.85 (11.16) by 13.17 metres. Little or nothing else about the fabric above its foundations is known, <sup>17</sup> except that Pausanias saw the inscription on it, and did not see the statues once housed within its walls, <sup>18</sup> What manner of entrance it had, what was the purpose of the quadrangular holes with which its limestone floor is honeycombed (see Fig. 1), whether it originally had a portice or portices on the east and west what manner of walls supported its entablature, all this is quite unknown. Shewing no triglyph or other frieze, the Geloans' superstructure cannot be classed as Doric. If, however, its Dorism could be asserted because the sous of its builders' grandsons added a Doric porch, then this entablature, being what Palladians used to term, in discoursing of the Etrusean order, an 'architrave cornice,' might figure as a missing link, the friezeless Doric, corresponding to the friezeless Tuscan order. <sup>19</sup>

saves by a row of alternate waterspouts and autofixes.

<sup>13</sup> See Oi. Text ii, Fig. 8, p. 193, for evidence that a obsquered pattern, of simpler descrative effect than those loxenges, may have supplented the reversed palmettes on band (C) along the northern side, where it presumably showed watermouts.

" The Gelom scheme of roof-tilling has been reconstituted (Figure 2 top) : slong the ridgepole were laid large and all but cylindrical tiles. saving as america to the topmost rows,-one on either slaut, -alike of regular and Onbeiera Throw enormous ridge-pole tiles were Joined each to each by three ander and overlapping rings or vertical rections, subossed; and such of them mised skywurds as enormous palmette sproading lengthwise of the ridge-pole. Viewed from many points on the Afric during the contury before the south perch was added, the affect of this serial row of mormous flower-like palmettes must almost have suggested,—but for different colours here,-a dress parade of numballed peaceths. The ordinary mot-tiles femiles were not convex but flat and quadrangular [meerly 2 feet equace] Except for

their under and overlapping tops and bottoms, these were bedded in clay, and the tops of the apperment courses on either slaut met at an obtime angle on the ridge-pole, under error of its manuscath imbrices. The contiguous sides of all the rows of these legades were modelled with up-and outsided entying quadrant-happed edges formed part of a municipality pair of those edges formed part of a municipality rib or ridge (runding from errors to ridge pole) down which rode send-cylindrical ribities (imbrices). Send-circular arched voids shown on orther side in the lower edges of the manuscile ridge-pole imbrices admitted the insertion of the uppur-induction of the two top rows, one on either slaut, of these smaller rib- or raffer imbrices.

"See Ol. Text ii, p. 44, where monition occurs of a shaft with only sixteen fintings found in the cost wall of Lee's fort. This (shown in Fig. 8 belonged, Dr. Dörpfeld augusts, sither to the Council-Heuse or to the Old Gelonn' tressury.

<sup>10</sup> J.H.S. vol. 32v, p. 868, and Pensanius VI, six, end.

" See M. A. Choiny, ap. land. t. p. 320.

301

But with no means of discovering the module, there can be little point in classing this ancient ark of the Geloans as Doric."

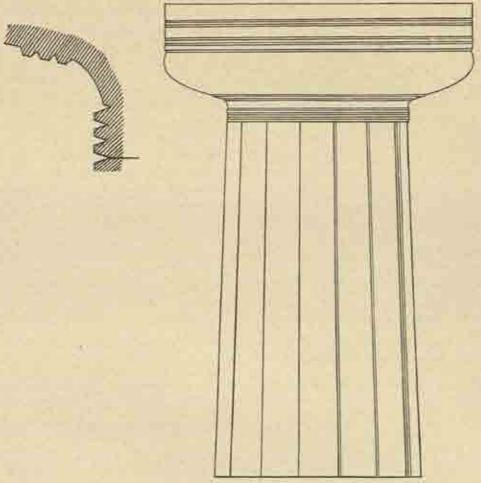


Fig. 3.—AscHAIC SHAFT (SIXTHER PLUTINGS) AND CAVITAL POUND IN THE EAST WALL OF Line's Pour.

The Gelouns' South Parch.—When, however, in the course of the sixth century, a long row of treasuries had sprung up on the terrace, all of them in the Doric style, the stamp of architectural Dorism 21 was set also upon the

along with the remains of the older chamfer. The triglyphs of this cutablature measure 0.51% by 0.752 metre, its we-topes are 0.752 metre square and the drinns show twenty flutings. At the top of the shaft not far from its pinetine with the capital appear four bettermial flutings or invisions, and the shaft shows pronounced

One final archaism should be noted; neither the formulations nor the recovered notableture stomes exhibit marked traces of charge or dowellings.

As indicated on p. 46 above, stome constituring a complete Darie entablishme with drives of columns approximing were found in Leo's wall.

Geloans' ancient house by the addition on the south of a Dorie porch; thus too, its entrance was apparently shifted from the cast to the south side and conformed to that of the later-built houses west of it. Very practical considerations sufficed in these early days to dietate this addition,—the need of some sheltered rendernus for Geloan worshippers, numerous at the time of the chariot victory of Pantares. After the era of treasury foundations this need fell into abeyance,—when, the opisthodomus of the great temple of Zeus and various porticoes having been built, there was abundant accommodation in more central parts of the Altis for all worshippers indiscriminately. But the

surface. The leastiful echinary of the capitals shows an overlanging pumbolic rarve, and atriking resemblance in profile to one found at Terra Nova (Gels). See Figure 4, where the proportionately high architrave is also shown, and also its un runnelled regulas. Note ( Wargood p. 16, Fig. 64) that the villes of the Hermtempedon, dating from est, 550 mm, also had under its caves regniss without guttes (trunnels). these under the petiments being trumselled. The Temple at Asses, the Olympian Corneil-House and Selmmittees' treasury (IX) also (see Ol. Test ii, p. 49) omitted framuels on the regular finder the saves. Above the square mytupes of the Geleans' perch, as also above its triglyphs, are the soul mutules, but they again are materiabelled. For Athenian fragments of a connec showing matrice without trumeda, see Wiepend, p. 177, Fig. 179 (a) and (b). The area of the Young Geloune triglyph is twothirds of that of the metope. For marks of the champings med, see the corner metope (Fig. 4). Two sorts were med (1) the - shaped, probably of metal, ami (2) these shaped like the load of a radimentary double-axe, probably of

"This whole Doris superstructure (see note above belongs certainly to the perch-haudistions in min two Fig. 1, as Dr. Dörpfeld has demonstrated : supposing it had ten triglyphs measuring as above, its sentle frontage works out at 13 17 meters. Six of the seven columns and capitals found are thus bestowed, - with the internitionalisms (2.55 m.) suggested by their dismeter, - along the couth face or front. The seventh and a missing eighth stand behind the tire and eight the corner, colimns of the front row and in front of the two half columns and variation in Fig. 4), applied respectively to the morth-east and south-west corners of the old treasury chamber. The southward extent of the foundations on the sust and west aflows just room for the tooting of two columns and a half with two interesibnumiations; home the demonstration is complete. The score of became,

among the pures impounts of the perch, are two half-expitals (see Fig. 1) applied by the young Getour builders to the two southern corners above mentioned. All the other access capitals recovered had indeed been roughly halved by Loo's builders for source transportation and handler me; but those two, for more excellibly diseased at the lack, were unmistackably washed with the regular staces of Hellenie builders not in front only but partly also at the back, —one of them at the right and the other at the lack, hand and (see Fig. 1). This proves that they were the half-columns of half supitals alightly projecting respectively beyond the east and west walls of the original chamber.

See J.H.S. xxv, pp. 297 f., 295, note 10, 302, note 19, 306, and 300. For the existence of any sort of entrance there is importunately no proof or evidence whatsoever.

or The date, and far from 500 a.c., suggested for this perch [J.H.S. xxv, p. 297 f.) useds no confirmation by a supposed new departure in the fasting of the perch foundations. Here is undoubtedly a substratum of broken field stems untirely dispensed with by the OM Geloon chamber and by all the older tremurfes adjacent. loxcept No. X, the Matapontium' house, but med by the ave westernmest and larest built : but - below, mites 28, 72, and 70. The subsoil in front of the Old Gelouis' chamber was evidently considered unstable and the ambitude very smalley had recourse to notings which were not meeted, and therefore not used, by the builders of the chamber. The Young Gebon foundation courses thus highled are however, quite out of joint with those of the older chamber, and the three contemporaneously built steps surrounding porch and shamier allks are hopelessly out of joint with the floor of the chamber though not with that of the perchip on the west the chamber floor line wholly below the top step outside. This is good exidence confirming the fact otherwise established that the Young Goloans' poorli was a later addition.

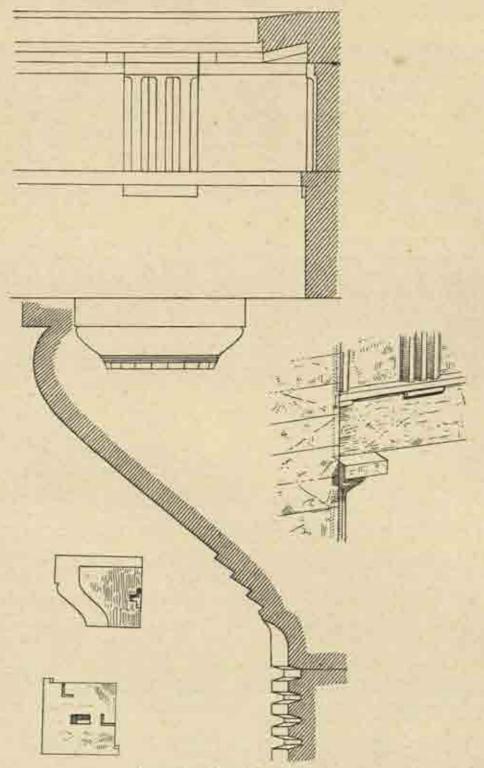


FIG. 4. THE YOUNG GREAKS' PORCH.

Young Geloans could not foresse what was coming, and were at pains to make their porch long enough,—witness the overlapping of their half columns applied to the two southern corners of the old chamber or cella (see note 22, above, and Fig. 4),—and deep enough to make sure of elbow room (see Fig. 1 and note 21, above). The six columns of this porch were surmounted not by a pediment, but by what was almost a lean-to roof; one so nearly flat that it scarcely could be seen even if you stood on the terrace in front.<sup>31</sup> Thus roof abutted at right angles upon the lowest and undecorated band of the Ohi Geloans' entablature. Thus the veneered surfaces of the old chamber with the ornamental cornice above them and the ridge-pole palmettes still higher, on the sky-line, fairly dominated this later porch. Evidently there was no desire on the Young Geloans' part to hide the brilliant handiwork of their pious forefathers.

The Metapontines' House, No. I. ——It is probable # that the Metapontines' treasury was built next after the old Geloaus' treasury-chamber, and long before the young Geloaus' porch. Its calla measured 8:30 by about 9:60 metres, and its vestibule was upwards of 2 metres deep. For its foundations see Fig. 1. Careful scrittiny of these, though it raises difficulties, favours the idea that X was built before XI, and next after XII. Near them, and no doubt originally built into them, were uncerthed, in fragments, triglyphs and metopes of a friable and marly limestone, the attentive study of which reveals several experimental variations through which the evolution of the Doric style at Olympia

The conclusive evidence of this derives entirely from Dr. Dorpheld's discovery, Ol. Text 1, p. 64, on one of the recovered autabilities etoms of the Old Gelouns chamber, class I, of a mark of the absenting porch roof with the inconsiderable slant of 1:9.

<sup>26</sup> J.H.S. xxv, pp. 294 ff., with n. 3, 300, 312, with n. 45 and 317.

\*\* J.H.S. xxv, p. 298 See also U. von Wilamowicz-Moellendorff's Hernkler (1895), i. pp. 10 L and n. 22.

I Unlike the five nearest treasuries, incitaling the Old Golones' chamber, but like the five treasuries furthest off and the Young Galaune' porch (see above, note 24 mil.), the foundation walls of X am bedden on rough stones laid in clay. Is X on this account of even date with them last! No, for the use of footings was not a quantion of date but of varying stability in the subsail of the Olympian tornes. The architects concerned one and all determined for or against footings in the most sensible and practical manner, though not (cf. the --- of VII and V) with invariably furtimate results. Experience showed that the subsorf at the back of the terrace and cost of VIII was solid, but ther footings were everywhere needed to the west of II (me above, note 29, and felow, notes 72

and 70 (aut.). In sun the boulder-stones under the furnifictions of X far exceed all others on the site, excepting those on which the Hernenm walls were lookled (Ol. Text.ii, pp. 50 and 28). As in the case of the Hersons and of treasuries Land. II (III and V being out of the count for lack of cynlenge; and IV having footings under all its walls; these unfashioned feelings of X are outirely absent at the north and, and guidually show themselves toward the south emi, where they reach to a considerable depth. They contala sporadic fragments of amilitons and poros. Above them cause the topping off course (commispua) of drawed blocks, which being of rather course Olympian poros, contain many shells. Neither these por any other blocks recovered show the least traces of any use of clamps, a note which they have in common with the atmos of the Heracom and of the Ciu Geleam' chamber, but tim rough imper divising of those courses she wa that they were laid below the interior floorlevel of the cells.

Having served originally as part of X, these fragments may have been built into the foundations in the course of latter thay repairs: they may be stones rejected by the original limitions. In either case their study is of the greatest importance.

had to pass before reaching the harmonious regularity of Libon's great temple. One of these (see Fig. 5)—a metope fragment—shows at the back the profile of a cornice with a soffit of only 0.124 metre. With this stonemason's blunder is to be taken into account the startling experiment (also shown in Fig. 5) on the frieze of the Metapontines. There, entirely replacing the abacus and the taenin of the developed Doric frieze, is shown, running along the top alike of metopes and triglyphs, a radimentary cornice (suggestive of the Old Geloans' veneered soffit, shown just above their apology for an architrave), the total projection of which is not quite half 0.124 metre—that of

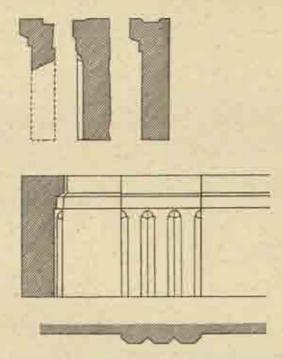


FIG. 5.—FRANKESTS AND RESTORATIONS OF THE METAPOSTISES' PATERS.

the eccentrically dressed fragment just discussed. Made here in an extreme form, this experiment was repeated by the Sicyonians in a much reduced and restrained form, and so successfully that it influenced the builders of the

top of the triglyphs and metopes in X. But see Ol. Ph. i. Plate xxxx for details of a sornice, possibly belonging to one of the tremuries, the total projection of whose soffit is 0:106 metre; and note that just each a comics would have suited a falme crowded in class to an older one, as was the Salimunthess treasury 1.J.W.S. xxv. pp. 294 and 298). No. IX

<sup>&</sup>quot;Begin apparently as a cornice by a moddle-boaded workman, this block was presumably afterwards taken in hand for a matries; but an edit point is that 0.124 metre should have been deemed by any one, even momentarily, to be the right digith for the soffit of a cornice. Possibly there was confusion between the nation of a cornice strictly so-called and that cocentric and experimental cornice projection shown along the

Parthenon. Another sign of the fluid stage of archaic Olympian Doric, when the Metapontines built what was the earliest Doric entablature of stone at Olympia, shows in the curves of the glyphs of this same frieze. Data for determining the intercolumniations and the number of columns is are entirely lacking, as are also discoveries upon which to base any theories as to its decoration with terracotta or otherwise.

The Megarians' House, No. XL<sup>33</sup>—Of the Megarians' house nothing remains on the terrace except the foundations<sup>21</sup> and portions of the cella walls (see Fig. 1) from which to gather any information; <sup>35</sup> but a discovery in the south-western corner of the Altis has made all the difference, transforming these foundations of the north-eastern corner into those of one of the best-known fabrics of Greek antiquity. At the southern end of the west wall of Leo's fort were found (a) stones from the stylobate, (b) drams and capitals, (c) blocks from the architrave, notably the central one that stretched across the void between the two columns in autis bearing, in characters of the Hellenistic age, the inscription MEΓ[AP]ΕΩΝ, (d) triglyphs and metopes for the frieze, <sup>36</sup> (c) portions of the

3 See J. H.S. Exv. p. 299, and the asceunt of the Siegerians' house, p. 82 below. Although the Suyoniam used no cornice but confined themselves to a simple attragal moulding, they nevertheless preserved the idea of a sightly and fair-sized detail, which should serve to give a visible continuity to the mere, too much broken up otherwise by the Ingentously contrived proportions of their abasi metopes and triglyphs (see n. 121 below). Reflect that the Metapontimes' house, since the old Goloma' treasurychamber was not Dorie, while the chameters tically Done features of the Hernsum were presumably in word, was the conflict Dorie fabric at Olympic made of stone, and the overdoing of this experiment with its frieze will explain back.

Their tops show something hardly distinguishable from the roundest of 'pointed,' or the most pointed of round archer (see Fig. 5, and note the narrowing of the aperture subtanded by the curve).

There were almost certainly lower than four. Dr. Dörpfeld lessifiatingly suggests two, required for a templane in senie. This involves three triplyphs on the friend above the void between the columns. Three columns but for the ankwardness of the approach involved, would answer the dimensions had (Of Text 11 p. 50). The Olympian Council House sertainly had three columns in sacie, and for an archaile Athenian building 'B' in Dane style with three columns in sacie, or Wisquad, pp. 152 to 162. Between the Olympian Council House its alder and northern wing that is and the Metapourines' loose there cannot be much difference as

to date; but Dr. Wiegand's febrie 'B' was apparently built considerably fater even than the latter. The awkwardness of three columns is units might be regarded as a final proof of the archate and experimental character of the Dorie of the Metaponthas transary builders at Olympia.

\*\* J.H.S. XXV, pp. 294 IL, 298 L, 302 L, and 306 L.

" XII and X are not far from equilateral, but XI, lying between is roughly twice as long as it is broad (6:80 by 12:29 metres), III being the only one more nearly of these proportions. In its smaller dimension, XI is less by a third than X, and less than XII by two fifths, whereas X. XI, and XII are practically of the same length. These facts emport the view that XI was founded after XII and X, having its breadth determined by the available space remaining J. H. S. xxv, pp. 298f. t. Differences of level doubtless located it pearer to X (within I 60 metres) than to XII (within 3.90 metrm). Note that the foundations of X1, though carelessly laid as regards the walls above and without footings, were stronged ensel with ours ut the two southern

For the semi-detached foundations of an altar adjacent see J.H.S. EXV. pp. 306 f.; of, also Dr. Diepfield in Ol. Text ii, pp. 41 and 51, and p. 78 below.

Each component block consisted of a metope and its adjacent triglyph. This same combination occurs sporadinally (O). Text it, is 7 in Libon's temple, and the limestons trieze blocks on the sides of the Athenian Hecatompedon were thus combined if separat. cornices both horizontal and upstanting, (f) tiles from the roof, and, last but not least important, remains of five sculptured blocks. These last filled the

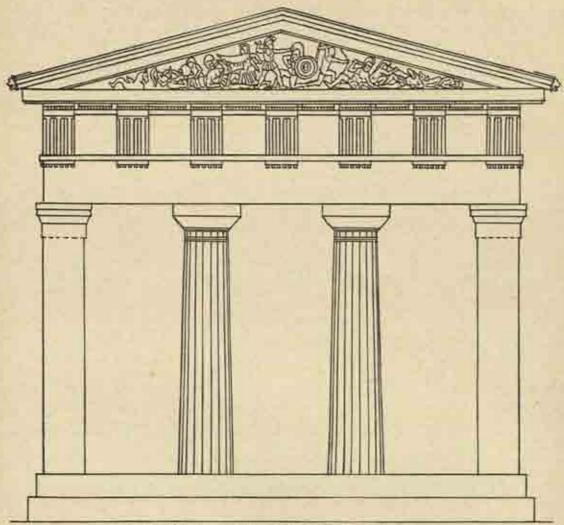


FIG. 6.—RESTORDS FROM OF THE MEGARIANS HOUSE.

tympanum and, when closely scrutinised 27 are found to represent in archair

p. 12, and see p. 148 f. for the sum her regarding fabric 'A'—the most archair of the miner buildings considered by Dr. Wiegard). These facts indicate such combinations as website and as by no means confined to diminutive buildings, and go for to mise again the question whether the Doris triggyph can have the origin anages of to it by Vitravius (IV. 2. 2. Were triglyphs really in origin makes for the ends of hormoutal beams? As Dr. Wiegand portinently observes (p. 60). The whole question of the prevalence of all-wooden construction during the sixth outbry s.c. requires detailed investigation. But whomes we the necessary facts to be derived?

"The total length of these fragments fitted

style the battle of the gods and giants, mentioned by Pausanias as adorning the pediment of the Megarians' treasury. Wing to a split in one of the recovered drums. 31 the height of the columns can only be approximately fixed at 3:50 metres; but they certainly shew (see Fig. 6) no traces of entasis.10 Although no stone of either anta has been recovered, the restoration as a temple in antis is quite assured. Neither architrave, nor frieze, though both are shown compicuously together below the pediment (see Fig. 7); appears along either of the sides,4 an additional proof, if one were needed, that the Metapontines' adjacent house was already standing to musk the western side of XI when the Megarians built it." At the two south corners appeared, however, two incipient metopes running for a short distance along each one of the sides, and suggesting an unseen continuation of the frieze, the absence of which could only be detected from very few points of view." Another experimental singularity at the corners of the entablature is apparent in Fig. 7.—the ingenious complication of junctures for the stones meeting at the corners, so contrived as to avoid their all coming together diagonally on the same vertical plane.46

The same experimental economy of labour, which dispensed with both architrave and frieze along the sides where their absence could escape obvious detection, shows also in the dressing of the Megarians' column-shafts (see Figg. 6 f.). Roughly dressed for the incision of twenty vertical flatings, they show

together tallies with what the foundations of XI require (see Ol. Text iii, pp. 5 ff., where Dr. Tern gives an account of them).

Τ΄ VI, xix. 13 τοῦ θυταυμοῦ δὲ ἐκείργασται τῷ ἀκτῷ ὁ τῶν γιγώντων καὶ θεῶν πόλεμαι.

Proved by the cumulative evidence of autocome tallying measurements and agreements otherwise, the appartenance of the remains (a): (a) to the Megarisms' foundation to perhaps meet strikingly evidenced to the example by the net that there are recovered drame fitting exactly evaluated suttings still visible (in the eightist) on the stylobars is site (Fig. 7).

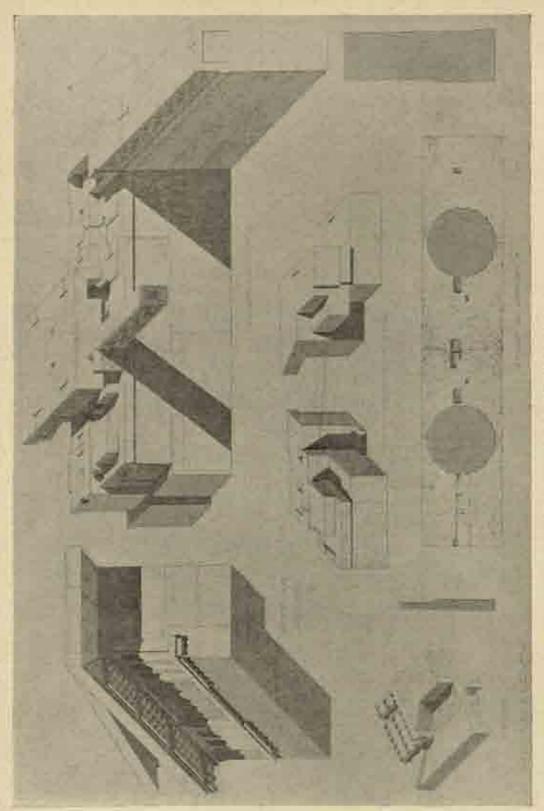
A fund disconverting to the theory that executive entacle must be regarded on the note of excessive archalon loss below, page \$1.

<sup>44</sup> Hr. Wegand (p. 39) cites this becomy as resulding the Heratomperion in having a frience, but in architrary, along its sides. Plumly his reference is to the Sicyonium treasury (1), not to XI. See below, p. 76. at An interval of only 1.60 matres separated.

An interval of only 1.00 metres exampled XI from X. The Signatures' house, on the contrary, where the translant not the architecture was continued along the sides the the note preceding) was masked on the west by no building whatever. The architecture was apparently not deemed as essential for the eye as the trace and therefore dispensed with in I as in XI.

This libration was substanced by suffing the interpretary that it is metape downwards with half a regula and three transmets; not was it presumably greatly interfered with by the entire absonce of any corresponding half mutule under the corona above. See Fig. 7, where is also shown, upside alowe, one of the two corner matules with the corona appertaining. Notice the rectangular termination of the front mutule, and the sharp diagonal suring of the soffit from which it depends.

"This trimmple of delicate adjustment is masked on the outside, last shows from within-Note also the - I shaped clamps of the entals lature, which also appear abswhere throughout the superstructure. No slamps or dowellings were used he the foundations. Horizontal commissures show to rabettings, but smooth face , vertical commissures are so rabetted as to heave broad hards on all edges. All commissures are more than occasionally covered with the same of time and for the natural faces, -a have sign that such stone was individually stunced before it was put into place. Incidens made for the claws of lifting-rope occur in many sterms, others were apparently bandled with levers and instined planes. The prevailing jone is frequently painted with marly limistone, many trimucla being of that material and patched in with boul.



Fro. 7. - Derains or the Macanians' House.

only the eleven visible from the front; "and, instead of the nine remaining, nine that unfluted vertical faces such as would belong to a polygon. Moreover the three parallel incisions or horizontal flutings, at the top of the shafts (see Fig. 6) near the capitals, extend also only half-way round so as to show from the front. The capitals themselves were dealt with more 'sincerely'; the curve of the echinus, which,—as is the case of Libon's temple and of the Metapontines' house,—is parabolic not elliptical, shows above four annulate ending each capital downwards. The abaci were presumably of the more extensive archaic type. Neither capitals nor metopes reveal traces of colour. The surmounting cornice of terracotta pointed with paimettes, and moulded into an archaic profile,"—a lower flat band topped by a convex curve that suggests the syma veroes of later days,—was confined to the pediment, so and quite

"See Wispand in 174 and Fig. 78 b), for a discussion of a Doric capital of vallow pores that shows only nine flatings. Dr. Wisgand infimates that it must have stood against a wall. Thus it would have formed a startlingly troccool feature in any somewixable archine tahun of Doric style; but these not this Olympian analogy go far towards invalidating Dr. Wisgand's coiter diction.)

" Plain marks of a dark blue encaustic colour show on the triglypha, regular, mutales, and all trunnels. Traces of red have been detected on the upper numbers of the architrave, on a marrow horizontal band below, and em the interspaces between the mutules as well as on the "thenia" or narrow horizontal hami just above the regular. Three builliant colours were also applied to the pedimental sculptures. Dr. Greet's plate innuber xive in Banmoister's Demonatler, where it figures as the Corner of a Doric temple sa meter in Dr. Borrmann's article on Polychromy) representation Megerians' Olympian house with unimportant variations as follows : no suggestion of the pedimental emptures is given, the capital of the anta is purely hypothetical in profile and decoration, and from the side unact be entirely capunged the whole friese with triglyphs, nestopes, matteles, wegalac, iromacle and all their appartemnass, while a half metope and transcilled regule must be substituted at the corner. Dr. termit has well given the flat termcotts hand masking the commu of the Magazina. sides. It was painted with a first and armount ed with berenoths palmetter at antelline. These occurred at intervals, one for each downslanting ridge of imbrines (sakswriper). The interrening tegelier abutted on this pisin freited hand, which led no waterspoots except at the corners. There reproduced by Dr. Graef as well as the scale allows, were remarkable lion's head scatorsponts. Musking laterally the beautifully

profiled and described towardth monthlings. applied to the upslanting polimental cornice, whose acroveriou was a shield taken from the Corinthians in some dataless encounter the Pansanias VI xix 13 and J.H.S. xxv. p. 803),these wonderful blone show two ercount-shaped curs upstanding among the flame-like waves of a mane so radiating from the fare us a centre that tressmiller an animated palmette. This truculent replication of the palmette antelixer and the palmetta pattern on the secimental cornics, being itself conventional, is effectively blemted. with the conventional treatment of the hair about the lips. Here the colouring is dark blus, and produces a thrilling impression of ferceness. For a most alaborate restoration in colours, see Ol. Pl. ii, Pl. exis, which alientd be ease-fully compared with Fig. 9 in Ol. Text iii, p. 13, where Dr. Treu ngures it uncoloured and transatored. This lion shows all the elements that were finally blended and glorified in the finest marble watersponts of Lilion's great temple. Perhaps even the Bon's head still. visible on the north-mattern corner of the Parthenon may be called its lineal descendant. The closed parallal to it, however, derives from Skellian Himsen, and may be seen in the Palermo

If Nothing of this could be shown in Fig. 6. For the preparation and painting of this coulder, see above, note 7. The native olay used by the Megarians was course. They aid not like the Old Geloom, baten their comics down with nails, but used a perforation 0.00 metre in diameter which tunnels through all the recovered pieces. Some set of reed as year apparently inserted here and the cornies was by that means made scorre. Just how this was done is not piste.

The small scale of the pediment, as they not Figures 6 and 7, has involved the entire emission of this palments pattern; but it

ontahone the plain fretted band running along the sides in continuation of the lower member of the pedimental profile. Indeed this pedimental cornice fulfilled for the Megarians just what the Old Geloans aimed at with their Egyptian cavette, only the Megarians, being here as elsewhere of a frugal mind, confined this splendour to the place where it would make the finest show, and the resulting total effect more than justified their parsimony. Their example was followed in this particular by the builders of the Parthenon, but not by Libon in ornamenting the great temple of Zeus, which, in this decorative in detail, aimed at the archaic effect dear to the Old Geloans. The whole scheme of the ceiling of the Megarians' vestibule or promass has been reconstituted in connexion with a series of parallel and narrow rectangular compartments or caiseons formed by eight wooden beams stretching across from the front cella wall to the back of the entablature above the columns in

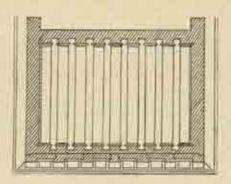


FIG. 8.—RESTORED SCHEME OF THE MEGARIANS' PROMACS CHIMNO.

entis, and the two corresponding stone beams (Octbalken) topping the lateral inside walls (of the vestibule: see Fig. 8.\*). The cardinal discovery for restoring the palmette decoration was its appearance, without any trace of the

appears repeated on a wholly first band in Fig. 7 as the descriptive interior frieze of the pranses and is admirally shown in Dr. Graef's plane (see the preceding note 16). The Megariana. country-profile - two surfaces, the make one flat, the upper one outswelling, printed with alternately upright and reversed palmettes and loruses was practically reproduced in the painted marble cornins -diversified by waterspouts, along the saves of Jabon's great temple; its pattern but not its profile shows with an insignificant variation for the worse in fashle surrication of spirals) on the Sellimmtines' temple 'C' (cf. Plata xlr, Fig. 2 to Ban-malater). If the date of the Selicuntines' temple is fixed late in the seventli century, then it looks in it the Megacine had improved apon the Selimetine pattern. Note that this pattern and in general the whole polychrony of

XI was executed in the same three colours already familiar as used by the Old Geleaus.

A practical consideration may after all have played a decisive part with the Megarians as well as with the builders of the Parthemen. Comining the painted cornice to the pediaments enabled them to dispense on the sides with a gutter and its waterapsints and to have "drapping cares." Such were equally desirable on the crowded Olympian terrace and the trapected Atheneus Acropolis.

At the point of junctime of this stone beam, shears at the top on the right in Fig. 7, notice a sarrow vertical cutting obviously suited for the insertion of a thin rectangular piece of scoolen venering. Projecting from the stone beam in which it was booked this veneraing panel was similarly inserted into the next parallel transverse beam. Its insertion colours, but still most clearly, on one of these two stone beams (see Ol. Text ii, p. 52, where Dr. Dörpfeld gives an account of the matter).

As for the roof of the whole fabric, a square seating for its fair-sized ridge-pale shows at the top on the inside of the middle tympanum block. It may be inferred that the slanting rafters had support from various uprights resting on horizontal beams forming the ceiling of the cella. On these rafters were laid the planks which in turn carried the tegulae bedded in clay. The three recovered tympanum-blocks, and the smilptured representation in high relief of the battle of the gods and giants, were uncarthed where they, along with various terracotta fragments from XII and XI, had been piled in, not far from the north-western angle of the South Portico, to form the 'core' of the last eight metres at the southern extremity of Leo's West Wall. They must have been transported upwards of 250 metres, along with the whole entablature of which they formed a conspicuous part. The group as testored is sketched in outline in Figure 6. As for the use of colours, the background

unquestionably implies the identical inscribes between the same transverse beam and the same lateral stone of a second reneering panel in order to close the carson at its opposite and ton the front cells wall). Thus was formed a compartment or exisson 0'40 metre wide by 3'44 metres long. This quadrilateral compartment was repeated sight times, for behind the triglyph blocks of the frieze show not only the square scaling out to remive the beam just mentioned, and shown in Fig 7, but seven athers at due litterrals and exactly like it. That all the vertical faces of these sight beams were decorated with the same pattern of alternately reversed palmettes and lotuses, already described as applied to the pedimental cosmice, is practically certain, because numistakable traces of it have been made out on one of the lateral stone beams (Criticallon) as shewn in Fig. 7.

of These three tympanum-blocks when assembled yield 0.744 metre for the height, and 5-70 meires for the beadth of the typepanum. The kerizontal cornies of the pediment measured 6:30, the foundations below 6:80 metres. Three facts, (a) the exact suitability in dimensions of these tympamma blocks to the measurements of the Megarians' house, (b) the agreement of their sculptures with Pansanias' glance at the Megariana' pedimont, (c) the material of (b), which is the same yallowish (trayertino) limestone from the Alphebus valley [Ter. Tren, Of. Text lii, pp. 1. 3, and 5 used for the more or less contemporaneous archain and colossal head of Here belonging to the Huracum, -all conspire to identify these blocks with the Megarians' enhiblatnye whose broken hits were recovered along with them : (c) is evidence, though the

entaldature is of different and womener stone, because the trunnels patched in ou XI bee glove. note 44) are invariably of this same marry (travertine) limestons. Another small piece of avidence depends on the fact that the Megarians' pediment sculptures were not in the round, but in high relief (cf. Pausanias' expression derelgyaneat of hers & the produces and Seas meleuor, me above, note 38j. This accounts for the fact, -proved by the otherwise impossible lines of Juncture shows by the five smiptured stones, -that these limestons blocks were laid in the tympamine before they were sculptured. Dr. Treu demonstrates this by various detailed considerations (O). Text iii, pp. 11 f.), s.g. if the blocks had been first sonigitured and afterwards hoisted into place, the thin vertical slice of Heracles' breast cut off by one of the junctures would certainly have suffered serious fracture, involving in the process of fitting it on to its continuation on the block adjacent repairs that were certainly hever made. That Pansanias' use of Jul. should imply sculpture of the blocks previonely bedded in the tympanum could have been bearned of Dr. Schularth Philologue xxiv, p. 584), and is also proved by the position and trend of chissi-markings on the lilecks themselves. These were minde by chiscle of more than one width plainly shown and measured on the blocks. Drills were also much for the flerier rough work on the deeper enttings. The indications of these padiment equiptures shown in Fig. 6 are obviously insufficient, but they enhitmentally agree were Dr. Tren's final restoration, which has been followed here and should be scrutinised in Ol. Pl. III, Plate Hilli.

was of a brilliant lightish blue et red iron oxide was also used, and the actual state of preservation of all the nude surfaces proves their original protection by colour of some kind all traces of which have disappeared. Male figures alone are involved, since Athena (middle left-hand group in Fig. 6) was draped, and for them something like the grange yellow, "favouring ' red, shewn on the archaic terracotta group of Heraeles and the Hydra in the Acropolis Museum must have been used. 'Although no longer, as when they were first unearthed, the oldest known pediment-sculptures, these Megarian figures have gained rather than lost in interest through the comparisons made possible by discoveries on the Athenian Acropolis. They shaw for instance a marked advance upon the obviously more ancient Athenian group of Heracles and the Hydra (not to speak of the more than archaic architrave-frieze at Assos with which there are also points of resemblance), and have even some points of advantage over the possibly contemporaneous battle of the gods and giants on the Siphnians' house at Delphi. But this last parallel is of course comparatively fruitless, because a pedimental group is one thing, and a continuous frieze like the Siphnians' is quite another. The Siphnians certainly had superior technique, but perhaps the Megarian sculptor, less preoccupied by purely decorative considerations, has achieved a more vividly dramatic composition. One comparison however is now possible where the Megarians unquestionably have the worst of it—that with the battle of Athena and the giants in the pediment of the remodelled Pisistratid Hecatompedon. Though one may contrive to miss in this screnely triumphant Athena and her almost monotonously covering fees a note of awkward but genuine poignancy present in the intenser Megarians' pedimental group, 4 yet the later art of the Athenians is incomparably superior for many reasons,

made, aims both groups as recovered are about equally incomplete; at Athens (B'éspand, p. 198) two anxiliary gods with their defeated giants are missing while at Olympia nearly the teliols of every one of the rictorieus gals is the result of the Tren's well inspired gently for restriction (see Ol. Pl. iii, Pl. n-iii, where the restorations are minutely indicated). In what remains of young Heruries are vivid intimations of spring and power, and the relies of forward swerring Area give a hint of formidably compressed energy; but the vanquished giants really remain in possession of the field, though the evidence is good showing that Possition, bimesif gossesed at more than even, is harding Nisyron, and that Athena's left foot was certainly planted on the fallen. giant's right leg near a gaping wound made just in front of it by the ouset of her spear. Both Zone and his thunderbolt are conspicuously absent, so that the study of the giunts' varied figures talike only in that such one is paralyse ! by the tereor of impending destruction) is about all that can be existy indulged in ; the one

<sup>78</sup> See above, note 18, at the end, Vestiges of the nine bankground were detected behind the helmet of Zene (central group) as well as behim! his said his giant antagonist's legs. Red iron axide was found on this same giant's sinish and belinet, on the children of Arms (right hand corner group), and on the bair of the giant seemlted with club and bow by Herneles (middle right hand group). The same builliant red also appears on the hand, lips, and eyes of Posendon (huring Nisyres at his prostrate for in the left hand corner group). The eyes in all casss are archaeolly almond shaped. Black must have been freely used to bring out various dettils such as tors, buir, and the like; the more so because, though several bits in high reliaf were pieces on, resort was not had, in in the Arginetan padiment and slawlers, to bronze appurtenances or details of any kind. Note that Athem's bure left foot must have been of some light colour.

<sup>&</sup>lt;sup>10</sup> See Wiegand, pp. 129-147. Or Professor Hans Schredon's account of it.

is No very atrict comparison can however be it.S.—VOL. XXVI.

of which one has to do with their use of marble instead of the Megariaus' limestone. But the most obvious one certainly is the ludicrously diminutive scale forced upon the Megarians by the size of their Olympian house. Their gods and their giants are not quite half life-size, whereas the Athenian figures are much over life-size; the Athena being over life-size and seven and a half heads high at that, and the giants being represented not only in proportion, but as real giants. Turning to a comparison more to our Megarians' advantage, note with Kekuli a certain resemblance between the Heracles here and the Heracles of the well-known Selmantine metopes of temple 'C.' A compendious vitality,-gained at the expense of delicate finish, no doubt, but still achieved,-characterises alike these Megarian sculptures, and those of Selinus, a granddaughter colony. General comparison of the composition in hand with larger and later pediment sculptures reveals a neglect in the smaller work of strict symmetry such as is found alike in the Pisistratid, the Phidian, the Aeginetan, and the great Olympian pediment groups. In dispensing with a central figure, the Megarians were but cutting their coat according to their cloth; and so escaped the snare of triviality so hard to avoid with diminutive figures and small space.10 To have pediment sculptures at all for so diminutive a building may have been the Megarians' new idea; the still better plan of entirely dispensing with pediment sculptures was the new idea of a later day, though but a reversion to the practice of the Geleans and the Metapontines.

The Cyrendeans' House, No. VII. After the Megarians' treasury had occupied all the available 38 space between the ancient altar (VIII, cf. J.H.S. xxv. p. 294) and the Stadium, communities seeking good sites for new communal houses began to build west of the altar. The Cyrenaeans came

before Zeus takes his death with a brutishly commutes grimace, the victim before Herneles lies in a disjointed heap, Athena's foe lies paralysed by her spear-thrust, while Pecciolon's still grips his swont and requires the quietus which is dra-nding upon him.

" J.H.S. xxv, pp. 298f. Noticeably similar details in both are (cf. Dr. Treu in Ol. Text in, p. 14) the similar fashions of bonast-plates, leathern as well us of bronze,-the central giant has a broast-plate and greaves of bronze industed by a sedonr different from that of the leathern ones of his followers, he also wears a helmon with plumes, these being corefully pleased on to the original stone, the similar treatment of the folds of the shirts showing below the acconfroments and a similar play of funial expression. For other points of similarity between this whole fabric and Schumtine work. soe above, note 48.

50 Note (Wagand, p. 100, Figg. 109 and 110) that the Hecatomyedon pediment-group of Heracles and the Triton has no central figure, -only a tire for the impediments of the hero, too has the corresponding east pediment any central figure. Like the Megarians' treasury, which it did not greatly exceed in size, it shows only a central

\* See J.H.S. xxv, pp. 294-301 possim, for swidence that VIII was no altar, and on the

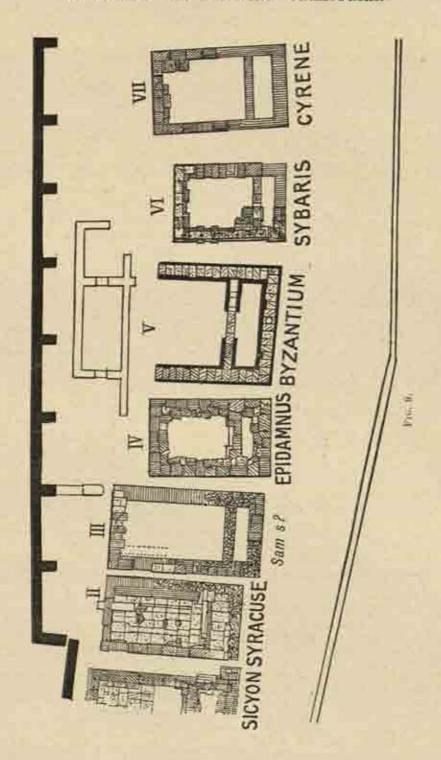
whole question of identification.

" It could not have occurred to them, as it. did to the Schmuntines, when VII, VI and V had been built west of the altar, to growd their house in between VIII and X (see J.H S. xxv, p. 294, plant.

56 If a precise data must be hunarded, Dr. Studmerka's aterdate; Kyrene eine uitgriechische Gattie (1890), p. 36) rather than his Secrepas operates in Rember in, p. 1724 Ol. Test iii, p. S. n. 11 might be minuted. Though VII was the earlier foundation, the date 554-544 mm., that of Arcestlas II, may stand for all three of thom.

"The notion that VII must be among the vary ablest fabrics on the terrain because it is

built on a high level in far-fetched



first and laid the foundations marked VII 41 (see Figg. I and 9). Of these foundations little remains, 62 and of their superstructure nothing for the student of architecture (Ol. Text ii, p. 48). But Dr. Treu (Ol. Text iii, pp. 19-23) convincingly argues that two sculptured fragments of North African limestone, 65 found at diagonally opposite extremities of the Altis, may have decorated its pediment 64. One of them certainly represents Cyrene throttling a lion (Pindar, P. ix. vv. 17 and 26 ff.), an episode popular with Cyrenaeans at all epochs. 55 Dr. Treu's evidence 76 is all the more important because it suggests that the Cyrenaeans, like the Old Geloans, fashioned at least some part of their treasury at home and carried it piecemeal across the Mediterranean to Olympia. 65

The Sybarites' House, No. VI. —Built in approximately the same decade with the houses on either side of it, VI, although currently identified with the Byzantines', should figure as the Sybarites' house. A little more is known

6 Currently identified with the Sybarites' transvery but not on the evidence of any observed facts. The identification depends on tirely on Pausanius and cannot stand if VIII is an alter.

= See J.H.S. 22v, p. 297, n. 5.

" It is of a kind common in Libya, harder and whiter (Ol. Yez) III, p. 21, u. 2) than any found near Olympia. The fragments are (a) the mulliated torse of the nympu Cyrene engaged in throttling's diminutive him (figured in Dr. Steriniecka's article Cyrmie. Roscher, ill, p. 1723), and (b) the headless legious and tailless trank of a cock which nevertheless is obviously bluntical in type with birds depicted on Cyrenouan vesses (Studinicrka's Kyrene 36). Though found for sport, among the remains of two quite distinct Bycantine actilemonts, the sumeness of their labyan material and their agreement to scale prove (a) and (b) to be parts of one and the same composition, while the Libyan proventence of the limestone, the Cyrenovan some depleted, and the ctyle of the representation, being notably of Cyrone, consours to identify these soulptuyes with the perimental docuration of the Dyrenmana house

"The brilliant identification by Tree and Standictks of these pedimental scalptures ought, although these scholars by no mean considerance such an idea, to dispose of the current identification with VIII of the Cyrenesus' treasury, and should go for toward confirming its identification with VII; for VIII, restored as a treasury [J.H.S. xxv, p. 295, with n. 1] could not home these scalptures is its pediment, since the scene (Pindar P. ix, 17 and 26 ff.) absolutely requires a figure of Apollo for whom there would be so coon (O). Text it.

p. 22, and Roicher as above). Furthermore Dr. Studniezka notes that the date required by the style of these culprares is about the middle of the sixth century, whereas that assigned to VIII is much earlier. Again such timestons as appears in VIII is of the wrong. kimi to go with the African variety. VII, on the contrary, had a pediment wider by 1 31 metre than any that could be attributed to VIII, and would therefore house both Cerese and Apollo most comfortably. If the sourprices are dated much earlier than the approximate date (554-514 mc.) here suggested for the founding of VII, VI. and V, then the fact observed by Dr. Tren, -that Cyrons cannot have been in the archale posture stributed to her by Dr. Smilniecka (with one knee on the ground) and community known as the Kardonf (O), Text iii, p. 20%-is disconserting,

∞ In the British Misseum are two late Cyrenasan monuments, one a spartle relief found in the tample of Aphrodite at Cyrene, the other a group found in the Cyrenasan temple of Apollo (Smrth and Poroher, Disservice of Cyrene, Pl. 76). Studioicaka identified this Olympian fragment as representing Cyrene by comparison with both these later.

mountments

ee San nobu 63 f. above.

"Note that the Suyanuan fashioned every detail of their house (I) at home and transported the whole of its superstrainture to Olympia, see below note 110 and, and J.H.S. z.v., p. 30s.

" See Fig 9 and J.M.S. xxx, pp. 294, plan, 296, with n. 2, 297 u. 6, and 298 f., with

u. s, and also Ol. Text.ii, p. 47.

of its foundations (see Fig. 9), but no more of its superstructure than in the case of VII. Poros foundations like these with no footings are evidently ticklish things, for there has been a phenomenal settling at the south end, and what should be joints in its side walls are gaping rifts. The rabetting or sinking of commissures, vertical and horizontal, has been overdone, leaving a very narrow outside rim or zone of complete contact. There are marks of the use of swallowtail-fashioned dowellings (Ol. Text ii, p. 47), and the downless may have been either of bronze or of wood. The dimensions of VI as of VII make it practically certain that each had two columns in antic. Dr. Treu (Ol. Text iii, pp. 23 f.) makes out a very good case for assigning several remains of sculptured birds to the pediment of VI, which may have aimed at something like the decorative effect of VII, where the group of Cyrene was flanked by figures of the same kind, though of a very different style in the execution."

The Byzantines' House, No. VII-The next foundations on the west, V. currently identified as the Epidamnians', should figure as the Byzantines' house. Though of about the same date with VI and VII, V may because of the footings of its foundations have been the last built of the three," The need of such footings was suggested perhaps by early signs of instability in the case of VII and of VI. At all events, V must have been founded before the Scythian campaign of Darius and the capture of Byzantium by Otmes 78 in 513 a.c. Disappointments lie in ambush for the careful student of the foundations of V. The footings of pebbles in a matrix of hard clay have not prevented the southern substructure from falling 0.20 metre lower than that on the other sides; only one single course of pores-blocks ? constituted the substructure thus bedded; on the north there were apparently no footings, and the course above has completely vanished. A welcome detail is the footing of the front or south cella-wall (a partition with a doorway), which has been clearly made out. This determines the exact position of the cella door, under which there is no footing but only foundation blocks for bedding the threshold-stone. A final disappointment, however, lurks in

What a stone of the entablatms, the columns or the antas, and very few stones of the cells wall have been identified as afts. Even this is more than som be said for VII.

The Tree's identification holds good when VI is regarded not as the Byzantinos' but as the Sybaritos' but as the Sybaritos' bound, for he has discovered nothing peculiarly of Byzantina about the subject represented, and the material used he identifies as Pissian impostone. Nor door his armark,—that the comparatively advanced type of those still archaic fragments fortide our classing them with such pediments as those on the Athenian Acropolis which were entirely filled with animal figures (Ol. Text fil, p. 25 cart.),—imply a date for them other than the middle of the sixth century.

H See Fig. 6 and J.H.S., pp. 294, with plan, 295 n. 2, 296, 299 f., with n. 10.

<sup>&</sup>lt;sup>33</sup> On the metability of the foundations of VI, see above, and for the same diffect in VII, see J.H.S. xxx, p. 296, n. 5; on the shole question of footbogs under Olympian foundations, see above, notes 28 (p. 54), 28 (p. 58), and below, note 108 (p. 78).

The Au observation of Dr. Treu (Ol. Text iii, p. 24), which he of course applies to IV, the currently accepted Byzantines' house, here identified as the Epidamnians'. It applies equally well to V.

<sup>73</sup> Ment of the perce is of the marky variety, but there are two stones of coarser grain, containing abundant shell deposits.

the plainly scratched is circle marked on a central top stone of the southern foundation wall. No column could have stood here for several reasons: (a) the scratched stone was not of the stylobate, but underlay it; (b) a column in that place would have implied eight columns for the whole front—more than it could hold is—and would also have blocked the cella-door. The inbettings or sinkings of commissures are identical with those of VI, but as to the use of clamps or dowels there is no evidence whatever, since no stone of the superstructure has been recovered. Dr. Treu's reasons (O). Text iii, pp. 16-18) for associating with V a splinter and a substantial fregment of sculptured limestone are not given as conclusive; but it seems not unlikely that he has really pitched upon relies of the Byzantines' pediment sculptures. If any house on the terrace was decorated with pedimental sculptures, surely V was one of them, since it was uniquely elaborate,—the Young Geloans' porch being an afterthought—in having six front columns.

The Scinumines House, No IX. -Not wishing to build farther west than V (the Byzantines' house), the Scinumines so contrived that they were allowed to build their house just east of the altar (VIII), crowding it into the uninviting space so west of and adjoining X. The date, 554-544, experimentally suggested above a for VII, VI, and V, would accord with that

Ol. Text ii, p. 47) that the ambition may have scratched this circle in order to see whother the foundation wall was broad mough, or he may have originally intended to use the acceptable foundation-stone for the dram of a column.

With eight columns the intercolumniations would be reduced to 0.04 motor, although V is, with the exception of XII, the brownest of the treasuries, being bromber in proportion by one-third than most of them.

<sup>27</sup> See Ol. Text 0, p. 47, and J.H.S. xxv, p. 299, n. 10.

No See Fig. 1, and J.H.S. xxv. pp. 294-298 with nm. 3 and 6.

The Selimentine architects plainly adopted their site as a grs affer, and wors fully justified, affer the fact, in avoiding the alternative sits where later the Epidamenians holds IV (see Fig. 9 and J.H.S. xxx, plan on p. 294), by the creatural settlement (0.11 metre along the south wall of IV in spite of exceptionally curved footings, laid ander all four nails of the Epidamenians foundations (== above, n. 72), and note that the lamentable lumbdiffty syem of V, in spite of its corefully lash footings, must have membrowed the warming afforded to the Salamantines by the condition of VII and VI, of which they cannot have been unaware [see also above, nn. 24 and 25).

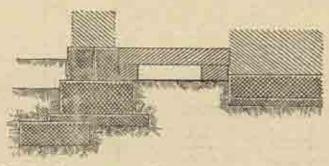
" Difficulties caused by the natural lurs!,

lower than that of VIII, forced the Selimutines to build around and outside of their foundation-walls at the north-west corner the low wall which appears in Fig. 1. Thus, although they essented the task of bedding their foundations, they had to support them. Also there were scribbe architectural drawlacks involved in crowding their home between the alter and X (see above, n. 20 and and of u. 58).

Had VIII been a transcry, the Cyrenarans or another, the Selimentines might have found it difficult to secure their ato. To overcome the arraphs of the Metapontines may indeed not have been easy, and sectainly it was the cur of the Eleans, with whom doubtless the decision finally rested, to prevent the giving or taking of offences in much an uncomfortable matter. The Megarians, near neighbours of the Selimuntines on the terrace, were doubtless as above, notes 46 and and 48 and and also J. H. & TEV. pp. 208 f.) friendly, and may possibly have used their influences to help their colonists secure the site.

"A more precise date than the one established (before 510 s.c., J.H.S. 837, p. 299) may possibly be derived from reising the question why the Selimentines did not imitate the Megarians in decorating their pediment with sculptures. That their pediment was unsculptured is proved by recovered fragments of their tympanum (Ol. Textil, p. 50 mil., and iii, p. 24, with Pl. 4, Pl. cxxiii, Fig. 4). All

of sav. 540-530 s.c. for IX. The material used by the Selimuntines for their foundations (Ol. Text ii, p. 49) was pores, but of finer grain and closer texture than the Olympian variety used for Libon's great temple. These peculiar characteristics, possibly indicating it as quarried near Sybaris (J.H.S. xxv, p. 298 ad fin.), have made easy the identification (Ol. Text ii. p. 49) of scattered remnants of the entablature. On these are no marks of the use of clamps or dowellings except the - shaped one shown on the corner of the triglyph-frieze in Fig. 11.85 If the north wall of V has entirely disappeared (see above, p. 69), the same is true of the Selinuntines' south wall (with the doubtful exception of two stones shown on Fig. 1), of half of their east wall, and of the whole of their south-west corner. Their



Pro. 10.—The Two Successively Laid Ploons of the Shinustines' House (FX).

front cells (partition) wall has also vanished. In what must have been the centre of the cella are eight stones, evidently belonging to the support for

proviously dedicated houses (except the eldest, XII, and possibly X, founded next after XII), had such sculptures. Not one founded after IX appears to have had them. For, as to IV, the fragments ingenemaly assigned to its pediment by Dr. Tren (Ol Text iii, pp. 15 ff.) hardly bear out his case and are in fact difficult to connect with any padiment, and there is no ovidence one way or the other in the case of II. and HI. Prome, as Selimentines, to take their one from metropolitan Megara, our builders nevertheless took the lead on the terrace in departing from the Megarian presedent (see above, p. 66), probably herause the Pisistratid giguatomachy had come into existence and made it evident that mariouette figures on diminutive fabrics were absord. The Piststratid foundations for the enlarged Heestompedon are dated with their sculptures in the last half of the sixth century, presumably after the restoration of the temple of Apollo at Delphi. which took place seen after 548 a.c. [ Wiemad,

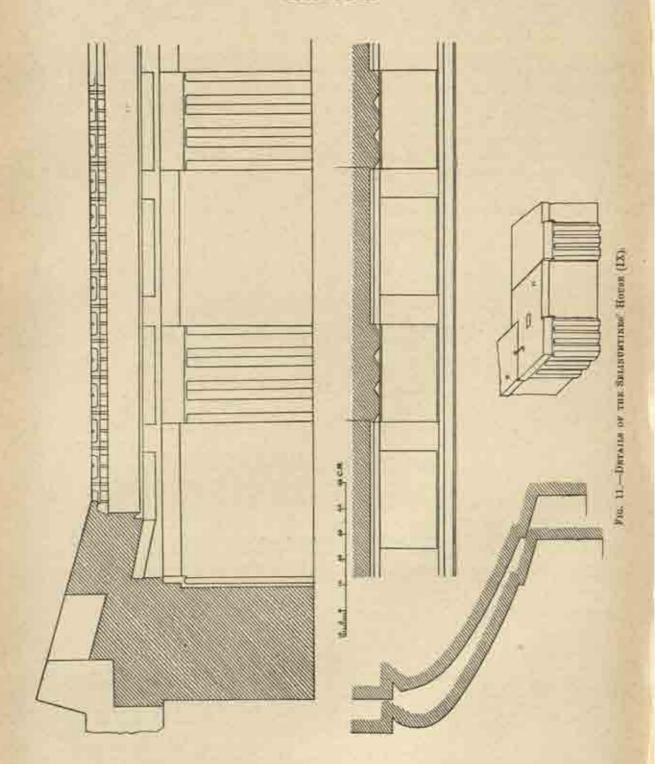
p. 126). Due time being allowed for these Athenance alptures to make their mark in Greece. is is not unreasonable to date the Selfmuntines self-denying ordinance, and with it the dedication of their communal house about 535 a.c.

iff See above, u. 58.

\* These identifications are certain became one course of the cells wall; -the opportion (two raws upstrailing on adge and back to back), see Fig. 1, -still remains or site, and to of just this material. Note the large swullowtail-fashioned dowel-holes which make it onetain that wooden danels were used, and contrust, on Fig. 0 the smaller boles of VI. whose dowels may here been of bronze (see above, p. 69).

The cocurrence of - shaped clamps along with swallowtail-shaped dowellings is paralleled in the Council-house, and is the Young General porch (Fig. 4), in both of which falaries both of these were applied to one and

this same stone.



some statue. Close examination of the cella floor and walls reveals earlier work beneath (see Fig. 10) The Doric entablature shows many experimental archaisms. Its regulae have not been recovered, but were presumably untrumelled 8 like its mutules, agreeing in this regard with the regulae and mutules of the young Geloans, and of the south wing of the Council House (see above, note 21). The glyph-tops are almost rectangular, offering a striking contrast to the almost pointed arch of the Metapontines' frieze and to the Epidammans' shapely and rounded glyph-tops.\* It has perhaps after all been possible to identify the capitals, but no remnants of the columns lave been recovered.

The Epidamnians' House, No. IV'91-The date and name of the foundations numbered IV, currently identified with the Syracusons' 'Carthagiman house, but more reasonably to be designated as the Epidamnians', call for no further discussion to here. None of the superstructure stands in situ. and only two courses of the foundations remain, along with their very thoroughly laid footings, " (See the east wall foundations to the left of V on

" See Fig. 1. Here is the solutary indication from the Olympian termes that there may have been in a freezing something of the nature of a enitus statue.

The earlier floor consisted of immediate concrete, i.e. (a) 5-10 millimetres of morrar, (b) 5 millimetres of very hard mortal or convente, (c) a very thin layer of lime, spread discotly on the soil and still in a state of excellent preservation. About 0'44 metre above this floor is laid a later floor, consisting of porce flagstones, savarated from the sensorets by a void. The film of stucco applied to the side wall by the contrivers of the concrete floor and extending plainly down to its level, shows that they did not also lay the flugstonsa.

" it is, however, possible that the Selinuntimes. like the builders of the south wing of the Council-house, may lave trunnelled their regulae and left their mutules untrunnelled

" Dr. Wingand's fabris " H" has square glyphtops also (pp. 156 162, and Pl. xiii, no. 3); sse on p. 163 the case of the Henatompedon whose glyph-tops are scrupalinally mumbed, white (include and painted in red and blue alternately) on a line with them as their conlinualion across the adjacent metopes, are flat or square-topped glyphs like those of the Schnuntines. It is still more noteworthy that the flat and the rounded glyph-top figure together, though not in the same frieze, upon Libon's great Olympian temple The glyphs of the playon are flat, but those above the cella door are round (of below ii, 99).

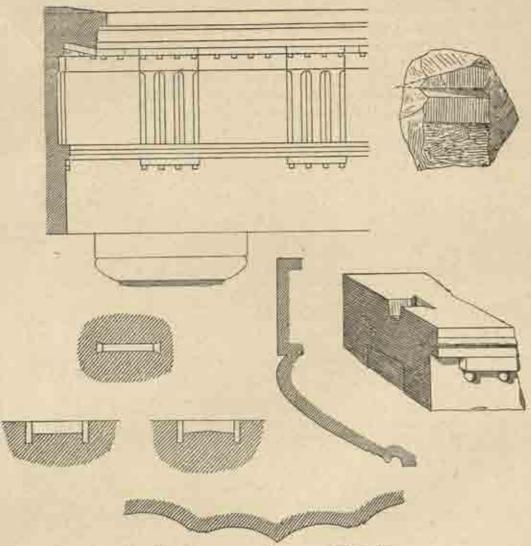
"Two Doric capitals have been found, both of a stone which matches that of IX, but they

ing profiles so divergent that Dr. Doepfeld declares (Ol. Text ii, pp. 45 f.) it impossible to decide which one is Salimuting, and insists that both esenot have belonged to the same tabric, although both, --- for as measurements go, -might be adopted. Then washould but have a repetition, in treasury IX, of that strange variation in the profile of capitals belonging to the same building which is thoroughly exemplilist by the ancient Olympian Herneum near by. This view has seemed to me the more reasonable one, and both these columns are therefore shown in Fig. 11. Here again is an illustration of the experimental phase of archaic Dorio as exemplified by the Olympian communal houses.

M See Fig. 9 and also J.H. S. Exv., pp. 294 ff. with un. 2 and 11.

14. pp. 291 ff. with plan and u. 2, and 298 ff. with nn. 8 and 11. It is, however, just worth mentioning that Dr. Wiegand's fabric "A' (which offers, as will uppear below, startling and detailed agreements with the superstructure andgreed to IV) agrees also with it in date (see ladow, unts 109). The assignment of the supersiructure is proved. It follows therefore that the current attrabution of IV to the Symposium must be alendoned, unless we give up Pannaniss well-accordited date for the Symmutation (J.H.S. Ext. p. 299 ad da .

at Here again, as in the case of V, the footings have not prevented a settling of the foundations (0.11 motre on the south side). What would have impround, if the Epidenmians, taking warning from the condition of VII, Fig. 9 and the plan in J.H.S. xxv, p. 294.) Scattered splinters of brilliantly white limestone have led to the identification, 31 as parts of the superstruc-



PIO. 12. DETAILS OF THE EPIDAMNIANS HOUSE (IV)

VI, and V, had not taken pains with their footings, may be gurssed from the fact that, to reach the solidly composited soil further west, the Secondaria had to dig as deep as 3 matrix. As compared with the safern and of the lerrary this western and was evidently the recent result of land-slips from Mt. Orening secultary, notes 24, 28, 72, and 79. Although few traces of the Epidamoiana' footings were found under the north wall, yet they evidently land

roalings there and to the extent property by the experiams of the Byzantines. Both remaining courses of their foundations together result a beight of 0.70 metre; the stone assolis ordinary Olympias power with sponsile bits of sendatom or marry timestone. But these stones are not dressed as for ashlar-work, but with a view to a sort of polygonal massary not parallated elsewhere on the site.

" See Fig. 12 and J.H.S. xxv. p. 300, p. 11.

ture, of five groups of fragments showing the same facles. (These constitute the evidence justifying the several restorations of the architectural details of IV shown in Fig. 12.)

These last again shew interesting archaic variations from the more settled forms of full-fledged Doric; in place of the ordinary 20 flutings vertically bounded or contained by 20 arrises, the shaft shews, apparently, as many as 32 flutings bounded by 16 of the usual arrises alternating with 16 vertically out astragal mouldings recessed between and contained by right angles; the horizontal member ending the architrave upwards is not a ribbon-band or taenia pure and simple performing the functions of an undecorated abacus; instead of this it carries horizontally the recessed astragal already introduced vertically between the alternate flutings of the columns: <sup>36</sup> as for the regulae, they carry four trunnels, <sup>36</sup> and the same number is repeated on the mutules; <sup>36</sup> a more successful experiment than that of the profiled taenia of the architrave is made in the beautifully rounded glyph-tops of the frieze; <sup>36</sup> the regular number of three

These ingments found in the maghinouthood of the Prytaneum, and appropriated to the foundations of IV, belong to it independently of the name it may bear (for the same case of VI, see nn. 68 and 73). Measurements based upon these fragments regarded as relies of a Dorie superstructure fully in all particulars with the requirements of the foundations numbered IV, providing for an extra triglyph between the two columns in matta,—a by magnetic instantisable arrangement.

"These five ard: (a) sufficient bits of the stones of the walls to determine their size and .- shaped dowellings (restored in Fig. 12), to make our in the right places gripping holes drilled for lifting irons, and to show that their valibetings, buricontal and vertical, were deep and sharply end so as to leave a broad surface of complete contact; (8) splinters of a Doric column ; (y) a fragment of the ambitrare ; (8) a good number of fragments from the friem, by careful measurement of which the respective dimensions of trigippin, metopes, regular, and various members apportuning have been arrived atr (\*) remnants of the cornice and of a tymps num-block, - the former sunnient to confirm the fact, otherwise arrived at in the onse of the regular, that there were only tour trunnels abreast on the mutules, the remains of the latter being ample for determining the upward a sut of the pediment (see Fig. 12).

"I discover only one purallel to this bipartite profiling of the tachia, the sualegue occurs on the 'middle' temple at Sellium. The Metapontines' treatment as a cornice of the abunus along the top of their fricer is, however, a comewhat analogues experiment see above, pp. 56, ad 50, and 57 with note 313.

The trume's sang 9 millimetres apart, but otherwise clude measurement; the very precisely determined measurement of each regula, however, is 9:306 millimetre and allows only four transmis.

"Archaic Doric had evidently not a fixed rate as to the number of trumple to be shown abreast either in the architmer or on the cornice, for the Athenian Hecatompedon (Wieguad, Plate is) showed four trumple on untules above metopes and six on those above triglyphs and our regular. Dr. Wieguad's fabric "A" on the other hand (Plates xi and xii) shows four trumpeds above matopes, but five above triglyphs and on regular.

" Just such are the glyph-tops of Dr. Wiegund's falone 'A' (Pistes zii and ziil 2), and the measurements of its friese are strikingly Mentical with those of the Epplanmians, while the date maigned to it is the one roughly assigned by Dr. Dorpfeld to the Epidamuians' emperatructure (see Wiegand, p. 155 and Ol. Text II, p. 46 and su. While the pointed glyph top of the Manpontines appears to be an architectural axa! Acyoneror, so to speak, it is hard to decide whatlest the squared type of the Selimentines and Sicyoniana or the monded type of the Epidiannians was the prevalent one in archaic Dorin. The latter is found on the temple at Assos, and the Selimentine temple 'C.' but the former on a still older Selinuntine bemple, while both were used by Libou on the Olympian temple of Zene. The squared type rows (four in each and not six) appears in the trunnelling of the mutules. (90

The ! Samians' House, No. III, and the Syracustus' House, No. III, As no recovered and recorded details exist, either of the Samians' (?) house III, or of the Syracustus' 'Carthaginian' house, II, nothing can here be added to the discussion of them previously given, and only the Sicyonians' treasury remains to be considered.

The Sicymians' House, No. Lion—The first or westernmost of the twelve treasury foundations on the Olympian terrace was also the first to be unearthed, and was for a time supposed to represent the second treasury mentioned by Pausanias, the first seen by him having been provisionally identified with foundations further west, of a most scanty and dubious character. 194 Less dilapidated than those of the other treasuries, 193 the Sicyonians' foundations lack only a portion of their south wall (see Fig. 13).

anally prevailed, no doubt because it harmonises best with the characteristic Deric model for the logs of column facts. The rounded type is suggestive of Ionis flatings (cf. n. 89 shove).

he Precise measurement proves that such glyph on the Epidamotims frieze was 0-102 metre bosed, 0-308 being the width of the whole triglyph. Thus is confirmed the length (otherwise obtained) of the regular, and also the mutules are proved to have carried only four trumeds. The number of rows (sometimes then were two, sometimes then were two, sometimes then member in a row, some to have raried in ambaic Dorie, although there is no recorded case of two rows at Olympia.

"There are several electrostations in the connexton of Samos with Olympia at the beginning of the fifth century a.b. which make it not unreasonable to suggest that the Hellenistic inscription (found on May 23, 1878, morth east of the Hermann in a Dyzantine wall) ΣΑΜΙΩΝ (Purgold and Diffindurger, Ol. Text v, no. 652), 'from some building not seen by Passernian was really on a building which Pausinias did see, minaly on the otherwise anonymous freamry of J.H.S. exv, pp. 294 f. with notes I and 2, and n 300, - i.e. III Traattribution would bear out the prior foundation of IV J.H.S. p. 200), and the Hellenistic date of the inscription is matched by that of the strikingly similar one on X1, (Of Text v. so. 658), ef. above, p. 58.

[10] See Fig. 9, and J.H.S. pp. 294 f., with plan and an 1 f. ami 4, 209 f., and 306.

<sup>100</sup> See Fig. 13, and J.H.S. pp. 294 ff. with plan, 299 f., 306 f., and 800.

a stone unserthed close at hand (belonging upon

the south face of the castern anta, where it confronted everyone entering with a glance to the right) practically settled the question,—see Dr. Adies in volumes iv, pp. 35 ff. and v. pp. 30 f. of the Ausyrahuspae in Olympia. The disconcerting ruins on the west,—foundation-stones of a south western corner ander remains of the Exedra' of Herodea,—are now conjectured to be rulies of a homple of Aphrodite Urania (see Dr. Robert, Minheifungen, rviii, p. 43, and Dr. Dörpfehi, Ol. Test, h. p. 75).

Because apparently, it alone of all tim treasuries was limited under the great landslip of the sixth century, s.b., -a well authenticated catastrophe especially interesting became it suggests similar landslips in remoter times to explain why the soil along the whole western erid of the beersey was so unwishle that even the most carefully bodded foundations there laid (these of L IV, and V) exhibit marks of instability (see above notes 95 and 72) while those laid without footings (VI and VII) suffered most seriously from estilling, see O Text ii. pp. 48 f. and above, notes 58 and 80), and compare notes 24, 28, and 79. Until this lamiship, I, (Skeal) the other founds thous on the termes and this ruining superstructures, by for long generations at the disposal alike of the builders of the Basilies (ar. 420 a.b. when Libon's great temple was burned) and of Leo's fort [ca. 465-170 a.u.). It was apparently monopolised by the formur and by the still less skilled, hist soutemporansons, builders of the earlier Byzantins village around the Prytameum Doubt'ess it did not compt Lac's engineers became the open way along the front of the Esha poetico made easy the transportation of materials from XII and XI.

Steps two in number, one of them apparently refashioned into two, are plainly visible on all sides. Much of the inside pavement lies in sidu, and also not a few blocks of the bottom course of the cella walls, many others

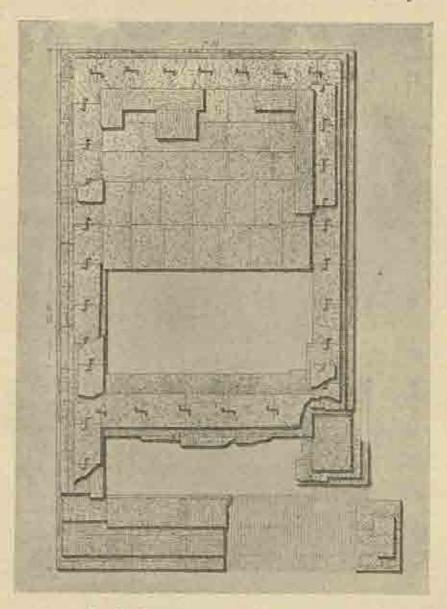


FIG. 13.—FOUNDATIONS OF THE SECURIANS HOUSE.

of which were found scattered about near at hand, along with many stones from the architrave, cornice, and frieze let These are the large and unmanageable

<sup>\*</sup>A proof of the rumous condition of the whole fabric before the great landwip, but after

the buildon of the Basilies and the Prytaneum village and wrecked it.

stones from the wreck; more portable ones came to light in the Basilica and the Prytaneum village. All extant portions of the building have, with time and patience, most assuredly been recovered, their imported Sicyonian stone being unique on the site (J.H.S. xxv, p. 309). Examples of practically all its architectural members having thus been identified, the last built among the dedicated communal bouses at Olympia (J.H.S. xxv, pp. 299) takes its place on the record of modern archaeological research as one of the most adequately recovered and interpreted minor monuments of Hellenic architecture.

The merest glance at the ground plan given in Fig. 13 shows such a difference in solidity as regards their foundations between the front (south) and the partition (front cella) walls, that the former alone can have been intended to support columns. This justifies the restoration of the whole fabric as a templum in antia 107 Measuring inside 10:49 by 5:26 metres, and 12:80 by 7:31 outside, I, small though it was, ranks among the larger houses on the terrace. For their modest building, the Sicyonians dispensed of course with anything like the solid masonry that formed the Parthenon stereobate, or the mounded erection under Libon's great temple, and were content with piecemeal foundations and footings. 188 Just at the back (north) end, however, where the virgin soil 100 came nearest to the surface, something like a solid and continuous stereobate is laid. This extends under the whole northern half of the cella, where the two foundation-courses underlie not only the walls but also the whole floor of the north half of the cells. Upon the flagging above this very solid basement (discontinued under the southern half of the cella and the vestibule] were doubtless placed the ponderous θάλαμοι dedicated, says Pausanias, by Myron and the Sicvonians (J.H.S. xxv. pp. 308 f.). Reverting again to the opposite (south) foundation-wall, and fixing attention on its right hand (south-eastern) corner, note particularly a detached extension of it so laid that it cannot but have been intended to support an altar (J.H.S. xxv, p. 306 f., and n. 35 above).

As for the superstructure of I, whose more essential features are exhibited

10 This instoration is simply confirmed by recovered stones belonging to both antas.

Sicyonians' treasury,—as J.H.S. zxv. p. 309) for more ancient than I (see Ol Text H. p. 31.) These footings umberlay the whole south wall and extended for a short dimance continued under the two side walls. Above them and also maler all parts where footings were dispensed with, came the foundation-courses strictly so called: (a) small atmes laid in a mortar of clay, (B) ordinary blocks, chiefly of common local porce, but occasionally of the same imported favory and stone of Sinyen med for the whole superstructure.

"Under the south wall the virgin soil ran in places as much se 3 40 metres below the surface, the soil to that depth having promusally slipped down from Mt. Cronius (see above, m. 25).

<sup>100</sup> Unlike the Epitamminus, the Sievenians left their morth wall and and without factings probably bearine IV bad settled preseptibly before I was planned, and the fair informer was that its builders could with safety revert to the practice of the Ryantines, since V, with no factings under the north wall, limit fixed no worse than IV. The Sievenians did, however, dig very deep trenches for their feetings, especially under their south wall where the subsoil was most tacklish (see above, note 105). Their treaches were affect with rachide, pelifiles, epilinters from pures-blocks, chips of braceia, and also a few shorts of fermeetta coof tiling of strikingly archide applied defived with antile from some fabric (possibly an earlier

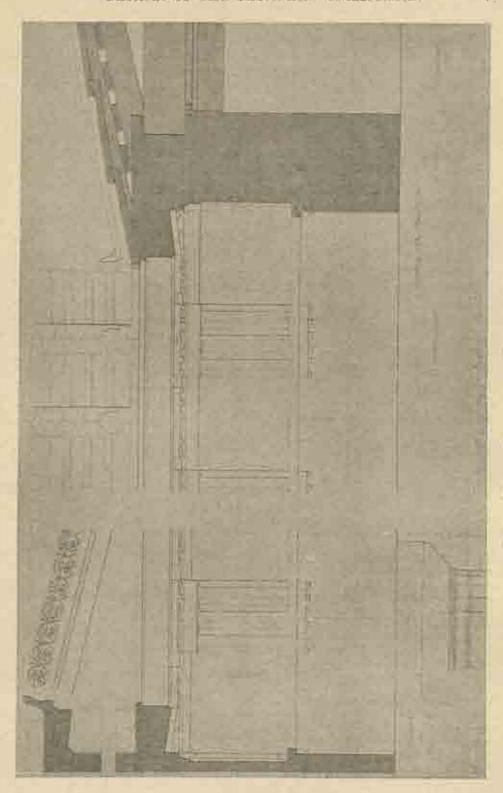


FIG. 14.—RESTORD DETAILS OF THE SICYONARS HOUSE.

(as restored) in Fig. 14, not only are all its very numerous recovered blocks and fragments of the same tawny limestone (verging toward sandstone) presumably quarried near Sieyon, but sixteen important blocks among them bear as stonemasons' marks peculiar letters belonging specifically to the alphabet of common use at Sicyon between 500 and 450 a.c.110 If the Fig. 13) are used throughout the whole superstructure would weigh among the many other convincing arguments in favour of dating it as near to 500 B.c. as would on other grounds be possible." It is, however, satisfactorily evident that Dr. Dörpfeld can away with these clamps in his delence of the date va. 450 B.C. (see J.H.S., xxv, p. 299, and Ol. Text ii, p. 43). In the Peloponnesus such clamps may be on any building of the first half of the fifth century, just as the alphabet of all the inscriptions might appear on any Sicyonian building of that half century. There remains, however, a certain presumption favouring a date early in that period for the use of - clamps, and no one has stated this presumption in the case of Peloponnesian buildings better than Dr. Derpfeld himself (Ol. Text i, p. 80). Thus the burden of

110 & Kar B), & that El II, X Ifor Ear HI. and the streight iots occur uniong others, and reproduce the alphabet of a vasa from Carre dated by the artist's unme Exckins (see Roberts' and E. Cardner's Introduction to Greek Epigraphy, pp. 127 and 156). The same data 509-400 m.c. is resigned to these stememanous' marks, when we consider the ldentity of their alphabet with that of the inscription (see above, note 104, and of, Ol. Text v. Inscription no. 649; on the unts of I mad its variation from that of the earlier dedicatory inscription on a Steyenian brance hand offewing M for \$1 found at the muth-eastern corner of Lao's wall in 1878 (Ol. Text v. no. 245). These sixteen stones were all inserted on their bottom instrantal comenlasures in the orter lands ismoothly dressed for complete contact). The sixteen thus superially noted were doubtless those about the proper placing and fitting of which peoplexities might coully arise, considering that all the stones alike were (a) quarried, dressed and marked at Slayon, (8) then a transported by sea. to the mouth of the Alpheius, (9) and themse earried by road or in burges to the Olympian terrace (J.H.S. exv, pp. 201 and and 209, and no. 818 in Purgold and Dittemberger's OL

"" Considering the absolute definiteness with which Athenian buildings are duted earlier and later according as they have ahaped or shaped clamps, it is disconcerting for the energers to find that both kinds were used on the temple of Apolla at Bassay, and to note that the shaped shape were used on the

Megariuna' tressury (see above, note 44), the former built long after, and the latter as certainly much before 500 m.c., the date when we are to suppose that the shape was being trely abundanced at Athens Ne inferences can therefore he confidently drawn in the Pelopomocsus as to the date of a building from the use of \_\_\_\_\_ or \_\_\_\_ shaped mamps. But see Dr Dürpfeld's argument (Ol. Text II, p. 43) in view of which his argument [O]. Text i. p. 50) concerning these Peloponnovan fabrics is perplexing, for in this last he makes no distruction between Athenian and Peroponnesian work, saying "Wenn wir being Zonstempel und bel der Busis des grossen Knittliddes Einenklausmorn con der Form | - | beim Gelande A dagegen salche von der Form - nuden, m simil wir, so benow wicht due Gegentheil positie ectoiesen ist, vorpflichtet an verschiedenu Banzeiten zu denken. His conclusion is that fabric A (with almost glamps) is of earlier date than Liben's great temple (with shaped clamps). Has Dr. Dorpfeld so clearly demonstrated the preinterfural mostermiry of I that he is not bound by his own rule to date it before Libon's temple! The communicat archaisms of its datails are elequent in a contrary sense. It seems our of the most pressing denidenata for the study of Greek architecture that some competent expert about it gather all the evidence now available as to the use of clamps and dowellings, without quite taking it for granted that every Athenian hallding shewing - shaped tuncks is therefore to be dated earlier than 500 a at

proof so far lies with those maintaining 450 as against 480-477. The rest of the evidence also favours return to the date \$80-477 B.C. assigned to I on its first discovery by Drs. Adler and Purgold. The former was guided by architectural considerations mainly, the latter by epigraphical ones, so that they drew light from a wide range of evidence and are the less likely to have errol, even though, when they fixed the date, they believed that I was the Syracusans' 'Carthaginian' house, built in commemoration of the victory at Himem (Ausgrahungen to Olympia, IV, p. 36). The capitals, of which one is recovered, and four annulets; the echinus, though decidedly archaic, is more like that of Libon's temple than any of the splaying profiles of the Heraeum; but it shows no approach toward the profile of the Parthsoon.118 Of the two column-shafts of I, two drums in have been recovered, and these combined yield evidence of an entasis so slight that it escapes detection when each is viewed separately. The Megarians' house (XI, see above, note 40) is a parallel example, showing that entasis could be wholly dispensed with in archaic Deric at Olympia. The height of the columns was approximately 3.84 metres, 111 and an iron gate fenced off the vestibule, 116 Scrutiny of the many recovered blocks from the upper courses of the side walls shows that the two uppermost of these courses corresponded to the architeave on the south and north faces of I 100 Thirty-six metopes and the same number of triglyphs formed the frieze, which adorned all four faces of L117 and the archaic habit

122 Libon's Olympian temple was planned about twenty years after 480-477 m.c., the date adopted above for 1; the Parthenon came later. Dr. Dörpfeld's date for I is after the Parthenon, and is defended because of an estragal moubling along the tup of the frieze alike of I and of the Parthenon. But the Partheson may quite as well have got this feature from I (J.H.S. xxv. p. 2991. Now the profile of the Sirymians' empital (Fig. 14) is nearly identical with that of the Megarians' (Fig. 6), and both are equally and strikingly similar to those of Libert's temple but absolutely agree in differing from them so to the profiling of the four annuletsthese the Megarians and Sisymians terminate with thursdy defined angles, whereas Libon ands his with a flat terminal surface (see Ol. Text Pl. i, Pl. sv, and et B Pls. axe (Sieyen) and axxvii (Megaral). But just this differentia,the pointed annulets of XI and I are found on the Young Geleans' capitals (Fig. 4), dated before 500 s.c. as XI is dated before 550 a.o., and also on the capitals of the southern or later wing of the Olympian Council-Hous (Ot. Pl. 4, Plate These last urn otherwise vary similar to Libon's profiles, although Dr. Dorpfeld for obvionally good resoons dates the worth wing somiderably earlier (O). Text i, p. 791 But if we adout this date for that fabric how can see, in the face of the Gelom and Megarian affinition of I, fail to do the like for to Indeed the outrestworth).

ness of dates based on any one architectural detail is just here brought home by the further fact that the profiling of the annulation Libou's temple is matched by what may be the oblest of all Olympian Done explicit (see Fig. 2 and Ot. Text 1, pp. 44 and 77, and above, n. 17).

The Each shaft consisted of two drams. At the tops or necks can three horizontal neckings or mensions, and here again the profiles of the Megarians and the Sicyonians are alike, and agree in differing from Libon's as well as in resembling those of the Young Gebana' and of the archair capital of Fig. 3 above, n. 17, both of which, however, had four musions

its The column delight has been calculated as corresponding to the lower fuelve courses of the walls, since the recovered lower dram is so fractured at the last that direct measurements were impracticable.

33 This is proved by three semicircular sentings drilled into the lower drinn at settiable heights and intervals.

We good, p. 61, where the same positivity is noted in the Recatompedou at Athens and the Olympicion at Agrigentum. Here again is an archair note borns also by Dr. Wiegand's fabric 'A (p. 149) dated on 550 s.c.

W Of the thirty six sandstone thocks, twentynine have been recovered. of fashioning triglyph and metope together from one and the same block is adhered to in Taenia and regulae, as a necessary downward finish for the frieze, appear also un all four faces, crowning the top course of ashlar along the two sides. In treasury I, the old fashion of mutules shorter above metopes than above trigtyphs has been abandoned; but two archaic notes still attach to its frieze, absent both of them from Libon's temple: (a) the proportions and profiles of its glyphs are comparatively inelegant, their tops being flatter and closely resembling those of the Athenians' Delphian treasury, built presumably in commemoration of Marathon; (3) its pedimental metopes are broader by 0.40 metre than the metopes of its eaves, which are square; and consequently, as the mutules were all of the same length, the volds (vine) intervening must have varied in breadth 120 Another consequence of having metopes of different breadths was that, in order to make the broader (pedimental) ones appear to the eye as square, these were heightened at the expense of curtailing the supervening abaci,121 which thus became marrower than the abaci above the adjacent triglyphs. But this would have resulted in a most disagreeable effect of discontinuity in the frieze as a whole, if the Sicyonian architect had not invented to counternet it the brilliant bles of an astragal moulding which he introduced continuously along the tops of all his abaci, -for all details see Fig. 14. If this reasoning finds acceptance, the hypothesis that the Sieyonians must have waited until the Parthenon was built before conceiving the desirability of their famous astragal is untermble.

Marks, or rather notches, for the use of lifting-irons, some of them afterwards plugged, have been noted on many of the stones of the superstructure, but a number of the cornice-blocks shew in their horizontal commissures two holes not far spart, being the points of emergence or mouths of a semi-circular tunnel dexterously drilled to receive the noose of a cable with which, instead of with lifting-irons, they were swung into place.<sup>125</sup> Horizontal

dently tolerated as a lesser evil, and theraby aboved admirable artistic discretion. For the disquieting and ungainly effect of their rejected alternative, see Wiegand, Plates and xil.

in Another archabi note (me above, to \$6).

The Heratompeden and many other archaic perces buildings had one breadth for pedimental triglyphs and a lesser breadth for reglyphs on the sides. The Steponians innovated, but were still true exponents of 'premanonic' or experimental force in trying one breadth for pedimental metopes and a lesser breadth for unstopes along the sides. Here then is another archaic nots which at the same time shows that the experimental period is drawing to its close, since the Sicyoniam' ingenity resulted in a great advance toward harmony and regularity.

Here again is an archaic note which is at the same time an improvement on various old Atlantian pores buildings where chort mutules spood above metops and long area above triglypies, apparently in order to avoid any variation in the breatth of the intervening youts. This last variation the Sieymans evi-

The Note in Fig. 1s that along the sides the shard are all of exactly the same dimensions, whereas, under the pediment, about over trigipple are twins the height of abasi over metopes (see note 31 above). The bies of such a variation may have derived from the Piristratid extension of the Heratempedon, where, as in Libon's temple, all abasi over instotes are of less height than the abasi over trigipples. On the original Heratempedon, and or Dr. Wiegand's fabric 'A,' as on the sides of I there is no variation in the dimensions of abasis.

If Here is another archain note since this substitute for lifting from is abundantly proved for the beginning of the fifth and end of the sixth century s.c. by the recovery of similar tunnellings (a) on blocks built into the north

commissures were so rabbeted as to leave two-thirds of their surfaces for complete contact; on the vertical commissures these surfaces were relatively smaller. Wooden dowels 65 millimetres square and 50 high were used in the drums of the column-shafts. Abundant evidence shows that the pedimental cornice and the tympanum space cannot have had any sculptural or other decoration us There is little doubt that the Sicyonians' roof was of marble, since many fragments of marble tegulae and imbrices were anearthed close to the foundations, and with these were relies of a marble cornice belonging to the pediments. Dripping caves (see above, n. 49 end) ran along the sides each downward flanking ridge of imbrices being presumably terminated by an antefix although no antefix-fragments have been recovered. Traces of colour were not lacking. Cobalt blue shewed on several triglyphs and on the trunnels of one cornice-block mutule. Vestiges of red and blue shewed on the Lesbian cyma of the ascending as on the Dorian cyma of the horizontal pediment cornice 184 The pediment also shewed ornamentation which had plainly never been touched with paint.15 On the capital, which is well-preserved. there are no traces or intimations of colour or decorative design, the same being true of the Megarians' and the Young Geloans' capitals and of those of the Hecatompedon at Athens. To the modern eye at least, this is a great point of superiority in archaic Doric as compared with that of the Parthenon, if we must accept Dr. Bötticher's ideas about the painting of its capitals. Traces not of actual red and blue, but of their former presence,130 shewed quite unmistakably along the top of the inside walls, so that nothing is more certain than the former decoration both of the vestibule and of the cella walls throughout with a fretted frieze ending, where it touched the ceiling. If with a Darie cyma. The effect of this design is strikingly similar to that of the painted anta-capital of Dr. Wiegand's fabric 'A.'

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wall of the Athenian Auropolia from the Haratompedan, (8) on one of the triglyph blocks found in the substructure of the Mnesiclean Pinacothem, but identified as having originally balonged to a small ausidal Doris building with three columns in antis of about oven date with the Athuniana Delphian treasury (Wiegend, p. 158, (mil.).

See above, n. 82.

In Dr. Wiegand's fabric 'A' has in most respects, just the schome of colouring shown here and in the Megarians' treasury (see above, note 52). It shows just this red and bine Dorie cyma, onne on its pedimental swains and again on the capitals of its autae, as well as under the pediment along the top of the tympenum (see Wiegand, Pl. xii), Note also that, if brown for triglyphs and mutules be substituted. the beautifully modulated colour-scheme of the Athenian Hecatompodon is almost the same as

that used by the Sicyoniane. In the points of difference, however, the Athonisms showed their artistic pre-eminence over Peloponussians of a later period of more advanced art (see Dr. Wiegand's wally wonderful Plats i).

Se Ol Text ii p 42 ad in No details or further particulars to given Perhaps the decoration may have been like that shown on Dr. Wiegand's Plate vi. although in that casit would hardly be certain there may not have been some colour sparingly used.

is By reason of greater protection from weathering afforded to the delicately stuccoed original antince (see above, n. 9) by the preparation of red here used as contrasted with the bine, Ol. Text if, p. 184.

= Above the Dorie cymn, along the nides of the cells and the costitute, showed sentings

for the beams of the cailing.

## ON THE LIST OF THALASSOCRACIES IN EUSEBIUS.

It is some years now since I had occasion to enter on the question of the value of the List of Thalassocracies, attributed to Diodorus and to Castor, in connexion with an enquiry, not yet completed, into the history of Cyprus in early Hellenic times; and it seemed to me then, first, that it would be of considerable importance, elsewhere than in Cyprus; if this list should turn out to have historical value; and smood, that the evidence for its credibility was considerably stronger than was currently supposed. But it was not until the appearance of Dr. Hugo Winckler's paper on the Euphrates-lands and the Mediterranean in the popular German series entitled Der Alte Orient, that it seemed worth while to say anything about this formally; and I only do so now because with all the respect due to so distinguished an Orientalist, it does not seem to me that Dr. Winckler's interpretation satisfies all the conditions of the problem.

What I hope to be able to do in the present paper is, first, to establish a case for the general credibility of the list, from its lower end up to the lacuna which mars its middle sections; next to attempt to find a fixed chronological point in the part of the list which comes above and before the lacuna; and then, with this basis, to try both to fill the lacuna approximately and to explain its origin.

## § 1 .- The Origin of the List of Thalassocracier.

The List of Thalassocracies comes down to us in a passage in the Chronicon of Eusebius<sup>2</sup> Eusebius ascribes it expressly to Diodorus; and as it is known that Diodorus dealt with the period which it covers in his lost Seventh Book, the excerpt is to be found printed among the fragments of that book in the Didot edition. It is also printed, for the reason which will appear directly, among the fragments of Castor of Rhodes, at the end of the Didot Herodotus.<sup>3</sup>

The existence of such a list of Thalassocracies is plainly presumed at

Loiprig (Hinricha, vol. 7, part 2, 1995.

<sup>5</sup> Pp. 168-9 in Mar's edition; p. 225 in Schoone's

I fam inde es Diodors scriptis, bresiter, de

temporibus Thalamorratorum qui mare tembant, Part bellam Trainman mare ablemsirunt etc. etc. ... inspec est allemndri (sc. Kernis) transmissionem.

the end of Diodorus v. 84.\* But the following books are lost, and we are dependent on other sources than the text of Diodorus for the details of the period which follows.

That Diodorus took this list from his contemporary, Caster of Rhodes, as supposed by Bornemann, is possible; though Wachsmith, for example, doubts it. But this does not follow the document appreciably further back; and Eusebius at all events says he got it from Diodorus.

Castor however is quoted by Suidas as having written on the Thalasso-cracies: éypaire és diverpairle Baßuküror sui vôn Oakaavorpavjarinné in Bußkiour ß—apparently a double-harrelled treatise, of which one half dealt with the lend-history of the East, and the other with the water-history of the Eastern Mediterranean. There are plenty of fragments of the Babylonian part; but of the other no direct quotation survives. We are consequently not in a position to say whether Castor's list was of his own composing, or whether, as in the case of the Babylonian chronicle, he abridged and compiled from identifiable sources.

The word θαλασσοκρατήσαι however is of older currency, being used of Carthage by Polybius, and of pre-Achaean Paros by Apollodorus. The reckoning of Thalassocracies was also carried up earlier than the Trojan War, as is shown by the case of Paros just quoted; by that of pre-Achaean Carpathos in Diodorus v. 54; and by the still earlier case of Minos. A similar phrase is used also by Straha about Chies; " and again about Polycrates," probably in reference to the same thalassocracy of Samos as appears in the systematic List. Local thalassocracy, like that of Sinope in Pontus. 11 illustrates perhaps a wider use of the word; but perhaps may be brought into connexion with the Phrygian thalassocracy in our List." But the proper sense of the word seems to be clear; a state was said Calagraphy arijust, if it practically "ruled the waves" for a period of years: the circumstances under which 'sea-power' in this sense passed from one state to another might vary, but posterity might without difficulty lay its finger on this or that occurrence as marking such transferences of sea-power; and it was probably in some such rough-and-ready way as this that our list came into existence originally,

## § 2.—The Date of the Composition of the List.

Another passage of Strabo throws a little light on the circumstances under which the attention of scholars, and others also, had been imperiously

<sup>\*</sup> τωντα μέν ούν έπράχθη πρό των Τραικώνμετά θε την Τροίας έλωτο Κόρες αξέμθεντες έτι πλοίας έβαλαττοκρότησαν, και των Κακλάδων πήσων ερατήσαντες, τίκας αξε ίδια κατέσχος και πολύ δε αυτής κατακούντας Κρήτας Εξέβαλος, τίκας δε κοινή μετά των προσκωμούντων Κρητών κατώκησαν. Εστερού δέ, των Έλλησων αδέμθεστων, συνέβη τὰς πλείους των Κοκλάδων εξοπωωικοθήνων και τους βαμβάμους Κάρως έξ κύτων διακοπέν περέ ών τὰ κατά μέρος δε τοίς οἰκείοις χρόνοις ἀναγράφορος.

De Castoris chrances Diodors Siendi fonte ac sarma, Lube-k, 1878.

<sup>\*</sup> Hindestrong, p. 102, n. 3.

f L 7, 8, ft. 16, 17,

<sup>\* 11 5. 90</sup> 

<sup>\*</sup> έκθετηντο δέ και ναυτικόν ποτο Χίνι, απί ανθέπτοντο τῆς κατά θάλασσαν έλουθορίας, 955 C.

<sup>20 947</sup> m.

<sup>11</sup> Strabo, 321 A.

<sup>7</sup> See p. 123.

directed to the problems of sen-power. For he uses the word 15 to describe the reign of terror maintained by the Cilician Pirates until their suppression by Pompeius. The sudden revolution which Pompeius effected could not but strike the imagination of historians; and may well have suggested, particularly to a Rhodian scholar, the task of reckoning backwards the sequence of sea-powers, so far as tradition served; if only for the opening paragraphs of an em losseges, a lant Pompeit Magni. The services rendered by their fleets to both sides in the Civil War were a further object-lesson in the same department of history; and it is with the triumph of Julius Caesar, that Castor's great chronography seems to have ended. There is therefore some slight probability that the List of Thalassocracies may actually have taken its final shape in the generation of Castor and Diodorus. It is also not improbable if the subject was thus 'in the air,' that more than one writer may have tried his hand at codifying these materials; in fact, that both Castor and Diodorus may have been merely gratifying a current fashion in constructing each his own List of Thalassocracies. That there was diversity of opinion, for example, as to the position of the Rhodians in the list, is clear from the statement of Syncellus; " and it is not impossible that the Rhodian sympathies of one of the compilers may have been responsible for this discrepancy.

But the List of Thalassocracies, as it stands in Eusebius' excerpt from Diodorus, and as its contents are incorporated here and there in the Eusebian Canon, presents two features which suggest an earlier and more instructive origin. It begins with the fall of Trey, ignoring Minos, and the pre-Achaean thalassocracies recorded by Diodoros himself, and others , and it ends with the Persian War, ignoring all subsequent sea-powers from the date of the 'crossing of Xerxes'; that is, from the point at which Aegina had to make up its bitter feud with Athens, and acquiesce, as the event proved, in a thalassocracy which was ultimately Athenian The list thus covers exactly the period reviewed by Thucydides in his introduction to the history of the greatest of Greek thalassocracies, the Delian League; and the allusive character of Thucydides' survey, the emphasis which he lays throughout on the revival of sea-power as a symptom of the growth of Hellenism, and his selection of Samos and Phocaea is as types of early Greek advancement between these terminal points, suggest that he presumed his reader's familiarity with some such catalogue of sea-powers, as a rough outline or conspectus

of the main subdivisions of the period.

The procedure of Thacydides does not of course prove in the least that the list preserved by Eusebius is of fifth century date; though the mention of Sames and Phocaea favours such a possibility. But it does auggest strongly that in the Periclean Age some such list was extant; and the circumstances of the Delian League, and the concentration upon Periclean Athens of so many converging lines of historical development, provide just such a provo-

<sup>23 980</sup> A, F. 11 See p. 90, below.

<sup>16</sup> i. 18 δυνατώτατα γάρ ταύτα τών γαυτικών δν.

cation to compile such lists, as the events of Castor's age provided, for its rehabilitation and revision later on.

Now we are fortunately situated for testing, after a fashion, the antiquity and the historical value of the extant list. Nothing is more characteristic of Diodorns, in a general way, than his dependence upon fourth century sources, and in particular upon Ephorus and the Isocratic school of historywriting; and nothing is more characteristic of this school than its systematic revolt against fifth century tradition. Thucydides in this respect stands right upon the dividing line; regretting the 'vulgar errors'-not always so erroneous either-of Herodotus and other 'ancient authorities'; but protesting no less vigorously against the slipshod rhetoric which he foresees in the 'new school.' But Herodotus is as pro-Thucydidean as he is pre-Socratic. Though for him also the Trojan and the Persian Wars open and close a great period of the world's history, and though his life and mind are wholly of the generation which was first capable of making such a retrospect as the List of Thalassocracies presents, there is no trace, from beginning to end of his book, of any such scheme of classification by sea-power, or even of any theory of sea-power such as the List of Thalassocracies presumes. On the contrary, on the one occasion when he mentions the word, it is to contrast Polycrates, πρώτος των ήμεις ίδμεν Ελλήνων δι θαλασσοκρατέειν έπεναήθη, with Minos και εί δή τις άλλος πρότερος τούτου ήρξε τής θαλάσσης· τής δέ ανθρωπηίης γενεής Πολυκράτης πρώτος: " so that there is even some reason to suppose that Thueydides in selecting for mention along with Samos, Phocaea, its immediate predecessor (as it happens) in the Eusebian list, may be gently reproaching Herodotus for another of his 'vulgar errors.'

Now if, as seems probable, there was a fifth century \*List of Thalassocracies, and if Herodotus did not know of it, while Thucydides apparently did, we are in a position to fix the date of its composition within fairly narrow limits; for Herodotus was in Athens, and on the fringe of the Periclean circle, as late as \$44 B.C. or thereabouts; and Thucydides was already getting his materials together and adjusting the perspective of his prologue, in the years

immediately succeeding 432 n.c.

Again, if Herodotus did not know of such a list, and was uninfluenced by any Thalassocrat-theory, it is obvious that any data he may have transmitted about any of the states which are included in the Eusebian list will have all the value of undesigned testimony in regard to the question whether the extant list represents genuine fifth century tradition. If it disagrees with the Herodotean data, we shall have strong grounds for assigning it to a period after the authority of Herodotus had become discredited, that is, to a date not earlier than the end of the fifth century. If, on the other hand, it agrees with the Herodotean data, it will be clear that it has not undergone any serious modification at the hands of Ephorus or any other of the normal sources of Diodorus; and we shall have important confirmation of the suspicion suggested by its aposiopesis at the 'crossing of Xerxes.' If finally we find

|      |  |  |  |            |                           |   |  | -   |                                    |
|------|--|--|--|------------|---------------------------|---|--|---|------------------------------------|
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|      |  |  |  | 1441       |                           | 675   |  |   | 64                                 |
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| ZIII | Same   |  | 1 = 3  | 1503       |                           | 513   |  |   | 517                                |
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| XVII | Aeginetae  | 10   | 10   | 10         | 20                        |   | 1  |   | 480                                |
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|      |  |  |  |            |                           |   |  |   |                                    |

that its contents, though consistent with the fifth century data, are inconsistent with the statements of Diodorus and other post-Ephoran writers; that, in order to make them fit the later systematic chronologies, the list had to be literally dismembered; and that, oven so, its data had to be frequently ignored; then we shall be in a very strong position indeed for asserting that the extant list represents essentially a genuine fifth century document, or Periclean date and authority; and we shall be supplied with a new and (I think) very valuable instrument for recovering the lifth century view of the

earlier history of Greece.

The objective value of the information contained in the list is of course a separate question. It can only be decided by comparison with independent chronological data; but though our conclusions differ in detail, I venture to think, with Dr. Winckler, that our knowledge of the history of the Nearer East is by this time sufficiently accurate and full to justify a renewed attempt to test the historical value of this list, the only chronological document, other than personal genealogies, which attempts a perspective of the 'dark age' of Greece. The last serious attempt to interpret the list was that of Dr. Goodwin in a brilliant little paper printed in 1855; and it will be seen from what follows that while the method of enquiry remains the same, the new data, which have become available meanwhile, put a very different face on the matter.

## \$ 3.—The Text of the List, and its use by Euselines.

Our authorities for the fist, and the data which they preserve, are tabulated on p. 88. The notes and criticisms which follow are intended to throw some light on the relation in which these authorities stand to one another, and to justify certain inferences as to the light in which Eusebius and his followers interpreted the list, and as to the state of the text of it in Eusebius' time and earlier.

Columns A BC give the substance of the list as it is quoted from Diodorus in the Armenian version of the Chronicon of Eusebins. The introductory words are as follows: Iam inde ex Diodori scriptis, breviter, de temporibus Thalasso-craterum qui mure tenebant. Post bellum Troianum mare obtinue unit...: then follows the list of seventeen mumes; or rather sisteen, with a lacuna in place X, where the Canon, as we shall see (p. 91), inserts the name of the Carians Following the name of the Acginetans in place XVII are the words 'sique ad Alexandri transmissionem.' The word rendered Alexandri is taken by all the editors as a scribe's blunder for Xerxis; and the phrase is obviously intended to refer to the Persian War of 480-479 BC. The Armenian orthography presents no serious difficulty: Pelezgis, Physikis, Melesseni, and According as casily identifiable with the help of the corresponding entries in the Canon (v. below).

It is important to note that in the column which gives the duration, in

years, of each 'sea-power' the numerals are missing in places VIII, IX, X, XI, and again in place XIII; for we shall see reason to believe that these represent a real and early lacuna in the list, which at its middle point involved damage to the name-column also, and led to uncertainty as to the reading Cares in place X.

Column D gives the evidence of Syncellus, who inserts, at their proper places in his chronology, certain of the same names and numerals, and also

the numerical order of each name as given in Cal. A.

In places II, III, IV, V, XII, XV, XVII he gives complete information agreeing in all points with Eusebius Excerpt. But in places I, VI-XI inclusive, and XIII he omits the numerals; and in places IX, X, and XI even the names, just where the corruption in Eusebius is deepest. He also presents a few aberrations, which are worth notice, as illustrating certain difficulties of transmission, which are peculiar to such a list as this

(1) In place IV he notes the Rhodians; but adds κατὰ δέ τινας πέμπτοι. This may be a real variant; but it may also be the expansion of a dittograph

of the memuros of place V, immediately following.

(2) That the latter is more probable is suggested by his comment on the Phrygian numeral in place V, where he gives, as well as the Eusebian numeral 25, the variant 'or 6.' Here also we seem to have the ordinal numeral of place VI carried up into the sentence before.

- (3) In place XVI, for the 15 years of the Eretrians, he gives 7 years. But note here also that in his copy the Greek numerals ι, ις, ιε, ιζ, ι came in close proximity; and a very slight confusion among these would bring a ζ, unaccompanied by an ι into the place where it stands in his version. The nameral ζ (7) for the Eretrians is in any case unsupported, and is also inconsistent with the external evidence, as we shall see later on 18.
- (4) In place XIV, for the 2 years of the Lacedaemonians he gives 12. Here also the presence or absence of a single stroke (ε = 10) makes all the difference; and the true figure is the only one out of the last tweive in the list, which does not thus begin with ε; but though Syncellus' variant is unsupported, it may very likely have originated in an attempt to solve a real chronological difficulty, which we shall have to consider later on in its proper place.

Column E gives the entries from the Canon of Eusebins, so far as it is preserved in the Armenian version. The numerals opposite the sea-power-numerals of Cols. C. D are the sea-power-numerals wherever they are given in the margin of the Canon. Wherever they are so given they agree with those in the Excerpt; but they are missing, just as in the Excerpt, in places VIII, IX and XIII; and in places VIII and IX even the names are omitted. In place XI, where the Excerpt is silent, one manuscript only gives the numeral 96, an obvious attempt to fill the gap by calculating the difference between the initial and the terminal year (1441—1345—96).

A curious error of this version, in place XIII, in the entry respecting the Samians, gives us one more piece of evidence. In place of the ordinal numeral

XIII, the numeral XVI is given, which makes nonzense as it stands. Now this cannot have arisen from any mere contamination with numerals above or below it, for none of these provides the materials for such a mistake. But we shall see, when we come to consider the historical evidence, that the Samian sea-power probably began with the rise of Polycrates, and this event is dated by Eusebius to the year 1484 (=532 B.C.) and by Jerome to 1487 (v.t. 1485; i.e. to 531 or 529 R.C.), and that its close is dated by Eusebius to 1503 =513 g.c.: Jerome is silent). Consequently the duration of the Samian seapower if estimated by subtraction would amount to either 17 years or a little less. How much less, we cannot tell precisely in the absence of the terminal figure in Jerome's version of the Canon. It is possible therefore that this numeral XVI standing where it ought not, represents an attempt to calculate the duration numeral of the Samians by simple subtraction, in the way already described. We shall see further on bowever, that the numeral 10 or 17 in this place is very probably correct; and it may even have stood on the edge of the lacuna in the original of Eusebius' Excerpt.

The places III—IV and VI—VII fell on pages which are missing altogether in the Armenian version; these gaps however only cover the years 1031—1099 and 1167—1120; and so cannot be invoked to explain the silence of this version in places VIII and IX. This silence therefore is due to the same lacuna in the Excerpt as is exhibited in our text of it; and we may therefore infer that this lacuna goes back to Eusebius' time and very probably existed in his copy of Diodorus.

On the other hand, in place X, where the Excerpt is silent even in the name-column, the Canon gives the name of the Carians, and the nameral 61. This numeral may have arisen by a process of subtraction like that suggested above in the case of the Lesbian numeral; but the correspondence is not quite exact, for the difference of years only amounts to 50. We shall have to return to this Carian numeral at some length, when we come

to compare the external evidence.10

Column G gives the equivalents, in years 8.C., of the Eusebian dates which are given under the 'year of Abraham' in the Canon and in Col. E. Between these dates I have given, in italic numerals, the actual intervals, obtained by subtraction, wherever adjacent dates are preserved. From a comparison of these intervals with the duration numerals given in the Excerpt (Col. C) and in Syncellus (Col. D), as well as in the margin of the Canon (Col. E), it is clear that the two sets of data are quite independent of one another. The only case in which they agree exactly is that of the corrupt Lesbian numeral in place XI, and here borrowing is evident; only in three cases do they approximate even within a year or two, as in places X, XII, and XIII, and in both X and XIII the Excerpt is deficient likewise.

It seems to follow from this that, so far from accepting the list which he took from Diodorus as a continuous record of events from the Trojan War to the Persian War, Eusebius regarded it merely as a collection of detached

statements as to the length of sea-power enjoyed by each state separately, while constructing his general chronology on quite different lines. The result is that sometimes be placed consecutive thalassocracies so as to overlap in his Canon, as in the case of the Lydians, who held sea-power 92 years, yet were succeeded by the Pelasgians after only 80; semetimes there was a gap between them; for example, the Phocaeaus had sea-power for 44 years, but were not succeeded by the Samians till after the lapse of 45. In the case of the Eretrians, who held sea-power for 15 years, but are given in the Canon 26 years, from 511 B.C., there has obviously been a blunder, caused by the total omission of the Naxians, whose initial date, and term of 10 years, have consequently been ascribed to their successors in the list. It is possible that this may also be the cause of the error of Syncellus in place XIV, if he detected the mistake about Eretria, but credited the spars 10 years to Lacedaemon, instead of allowing for the Canon's omission of the Naxians.

Column F gives the dates (in 'years of Abraham'), and the duration numerals, which are preserved in Jerome's version of the Eusebian Canan. Like Syncellus, Jerome gives no numeral to the Lydians; he gives 19 years to the Thracians instead of 79; 25 (with a c.t. 20) to the Phrygians; and 23 (with s.t. 32) to the Cyprians instead of 33. He omits the Egyptian and Carian numerals, but gives 18 years to the Milesians, and 68 to the Lesbians. For all below this point he is silent, except that he gives 20 years to the Aeginetaus instead of 10.

From all this it is clear that while his copy of the Canon had similar entries to those of the copy which underlies the Armenian version of Eusebius, and though his omission of the numerals for Egypt and Caria suggests a similar imperfection to that which we have seen to exist in the Eusebian Excerpt, either he has reproduced his entries very carelessly (as is suggested by his variant numerals for Thrace, Cyprus, and Aegina, and by his silence as to Lydia, and in places XII to XVI), or he had access to some other source, such as that from which he derived his numerals for Miletus and Lesbes.

In the case of Miletus there is the more reason to suspect this, because the numeral 18 does not agree with the subtraction numeral (which I have tabulated in Col. H); nor can it easily be derived by corruption from any adjacent numeral.<sup>22</sup> It probably represents, therefore, a real contribution towards filling the facuna in the Excerpt; and, as we shall see presently (pp. 112-5), the numeral 18 has historical probability to support it.

Column H, which serves the same purpose in Jerome's case as Column G in that of Eusebius, shows still more clearly how arbitrarily the compilers of the Canon, or Canons, pulled to pieces the list given in the Excerpt, and how

This incident is of interest also, in view of Schoons's view that Syncolins used the Cannon rather than the Chronicon. Here at all events he has used the Chronicon.

The only possibility in this direction is that the Milesian ordinal IX may have been

miaread tH' (=18). For a similar confusion between Greek and Latin words and symbols see p. 105, below, and Jerome's own corruption of lence s into Athlemor or Athles soons (Canon, p. 181, h); see Scheme, Gett. 421, Jun. 1878, pp. 1496-7.

freely they ignored its purpose as a continuous chronological outline. Not only do his intervals differ from those of the Armenian version in every case but that of the Rhodians in place IV, where alone all authorities agree in repeating the 23 years of the Excerpt; but, wherever his numerals differ, they differ more from the numerals of the Excerpt than do the intervals of the Armenian text. Whether the reason is, as Schoene suggests in a recent essay, that Jeroma was using a later and maturer edition of the Eusebian Canon than that on which the Armenian version is based, or whether these variations are Jerome's own contribution to chronology, the conclusion to which they point is the same; namely that Jerome had no more idea than Eusebius of treating the List as an organic whole. He was simply quoting extracts from it under the title of the several states which he names; but his Canon-dates for the sea-power of those states are derived from quite different sources.

The dates given by Jerome differ, also, from those in the Armenian version, in every case but that which divides the Carian sea-power from that of Lesbos, i.e. 1345 (= 671 B.C.). Above this point, and apparently as far back as the date between Rhodians and Phrygians (1113 = 903 B.C. in Eusebius) (1123 = 893 B.C. in Jerome), the dates given by Jerome would seem to have been ten years later: probably because he allows only 49 years instead of 59 to the Carians in place X. Though the Armenian version is wanting in place IV, the evidence of Syncellus as to the lost Eusebian text, and the circumstance that here alone all authorities agree on an interval, and a thalassocracy, of 23 years, suggest that the same relations existed between the two Canon-dates here also.

But above this there is chaos. In place III Jerome assigns no less than three separate dates to the initial year of the Thracian sea-power. Two of these (AA 1050 and AA 1055) fall within a missing page of the Armenian; but the third and earliest does not, and receives no support, even allowing for a ten years' discrepancy, from the Armenian text. Nor do any of Jerome's intervals (92, 41, or 46) correspond either with his duration-numeral (19) or with that of the Armenian version; and these discrepancies are in no way explained by those in places II and I. Nor,—and this is most curious of all,—though the Excerpt in its present form plainly dates the Lydian sea-power post bellum Troianum, does either the Armenian version or Jerome make it begin from the Fall of Troy; but Jerome ten years later, and the Armenian sixteen.

Below place X, Jerome, as we have seen, gives no data until ΔΔ 1508 (=508 n.c.), to which he assigns the beginning of the Aeginetan sea-power. Now, as he assigns 20 years (instead of 10) to the Aeginetans, he must have put their loss of sea-power in 488 n.c. Yet this is not, on any reckoning, the date of the Xerxis transmissio. The Armenian version on the other hand, though giving the Aeginetans only 10 years, as in the Except, dates the beginning of their sea-power from 485 n.c.; its end therefore cannot fall earlier than 475 n.c.; yet this date is no more that of the Xerxis transmissio than is 488 n.c. Here again, therefore, the plain chronological statement,

which concludes the Excerpt, has been ignored in both versions of the Canon alike.

All this looks hopeless enough; but it looks so, as we have seen, simply because of the view which both the Armenian text and Jeronic chose to take of the character of the information in the Excerpt. We have seen, however, that apart from two discrepancies on the part of Jerome (in places III and XVII), at points where fortunately the Excerpt, Syncellus, and the Eusebian Canon are agreed, the Excerpt which each had before him was substantially the same, so far as they have quoted it; and also that all copies of it contained much the same lacuna round places VIII—XIII.

### § 4.—The List as a Scheme of Chronology.

What we have next to consider, therefore, is whether these late writers were right in their view of the meaning of the list; or whether they would not have been wiser to have taken the list as an organic whole, so far as it goes, and as an attempt to classify the centuries usque ad Xerxis transmissionem by dead-reckoning backwards from this terminal event.

If this was the real character of the list, it ought to reveal itself on a comparison of the data contained in it with such evidence as to the sequence of events as can be derived from other sources; and if, as I have suggested, it bore this character as early as the fifth century, then it ought to stand comparison with other fifth century sources; that is, for practical purposes, with the narrative of Herodotus. What I propose to do next, therefore, is to make this comparison, beginning at the lowest point in the list, and working backwards as far as either the list or Herodotus will serve us.<sup>23</sup>

But obviously the existence of the great lacuna from place VIII to place XI, and its probable continuation in place XIII, precludes all possibility of dead-reckoning backwards from the dates below the lacuna to those above it. On the other hand, if it should be possible to find any fixed point among the dates above the lacuna, it ought to be possible to build up provisionally a reconstruction of the lost dates. The problem, therefore, with which we are confronted is really threefold. First, we have to determine, as I suggested to begin with, by comparison with fifth century sources,—that is to say, practically, with Herodotus,—whether the dates below the lacuna are real dates, or at all events whether they represent fifth century tradition about leading events in the sixth century. If they do not, then the list may be set uside as neither better nor worse than any other part of the information which comes to us, unascribed, through Diodorus. But if they do,—if, that is, the

apud Elections, tiottingen, 1855. I owe much in what follows, to this brilliant essay, though I only became acquainted with it when revising the present paper for the printer. It is only where it relies upon non-Hallonic history that it is antiquated by subsequent discoveries.

<sup>2 1</sup> have purposely confined myself in the text to purely Herodotean evidence; but, for completeness only, have added later evidence in the factnotes. It does not however contribute much. The whole question was admirably handled long age by Prof. W. W. Goodwin, Depointing externor publish marrimarum epochia.

List represents a lost fifth century original, then it will be worth while to go on to attack the second problem. Here, though for Egypt and Phoenicia Herodotus will still be of importance, the comparison will be mainly with a different class of testimony, namely the contemporary history of the eighth and seventh centuries as it has been recovered from the annals of Assyria and New Babylonia; and it is here that we shall have to acknowledge the suggestive hint of method supplied by Dr. Winckler's paper. Thirdly, it is only if we are able to establish the historical character of the List for this remoter period, that it will be worth while to attempt either to fill up the lacuna which intervenes, or to discuss the problems raised by the discrepancy between the heading of the List as it stands and the commonly received opinions about the period which succeeds the Trojan War.

#### § 5.—The Sea-power of Aegina. 400-480 B.C.™

The lower members of the List, as far back as the lacuna, have obviously a general appearance of authenticity. The sea-power of Aegina lasts tan years, and extends usque ad Acrais transmissionem; and this date ought to mean, on the current reckoning, the year 480. But actually Eusebius reckoned from 475, and consequently placed the beginning of the Aeginetan sea-power in 485; while Jerome put the beginning of his twenty-year period in 508, and consequently must have reckoned it to end in 488. Now if the List really started from 475, it would indeed have the advantage of starting from the point at which the greater Thalassocracy of Delos superseded all others; and it was probably some such consideration as this which influenced Eusebius in his selection of his terminal date. But even though the Aeginetans received the prize of valour at Salamis," it is difficult to see how the five years which followed could be credited to them: for Athens had already a far larger number of ships at Salamis; and the command of the pan-Hellenic fleet was continuously in the hands either of a Spartan or an Athenian:

There are two further reasons why the year 480 is inevitable as a starting-point in our backward reckening. First, by no possibility can a thalassocracy of Eretria (in place XVI of the List) be prolonged after the destruction of that city by Datis and Artaphernes in 490. Second, it was apparently very close to the year of Marathon, that the death of Cleomenes, and an anti-Athenian reaction in Sparta, untied the hands of Aegina, and led to the agitation for the return of the hostages from Athens. The result was the resumption of ἀκήρυκτος πολεμος between Aegina and Athens, Just at a moment when the hopes of every medizing state and faction in Greece were raised high by the coming of the Persian expedition. This ἀκήρυκτος πολεμος must have

Menceforward, for beavity and convenience, I until the 'years of Abraham' and give all dates in years 2,0.

<sup>&</sup>quot; Hdt. viii. 99.

<sup>&</sup>quot; Hills vi. 85-87.

<sup>=</sup> Hill. 21 04.

lasted nearly twenty years in all; but though after 490 Athens is upholding the cause of Eretria (deceased) under extreme difficulties, yet as we approach 480 it is Athens who is preparing for a decisive struggle with her rival. At the moment of Xerxes' expedition the situation was most critical—it was the greatest quarrel in all Greece, as Herodotus says —and how difficult it was for Aegina, we may judge from a comparison of the two squadrons at Salamis: Aegina brought 30 ships, Athens 180.20

We may therefore take the year 490 as the year of the transfarence of thalassocracy from Eretria to Aegina; and reckon the ten years assigned by the List to Aegina as running, in the words of the Excerpt, usque ad Xervis transmissionem. We may infer, also, that in the mind of the compiler of the List the five years from 480 to 475 were either reckoned as an interregnum, or were assigned to the Thalassocracy of that Pan-Hellonic League which Delos and Athens claimed later to perpetuate. We have thus a sure foundation in the double dating 499-480, and can safely proceed to build upon it so far as the List will allow.

### \$ 6.—The Sca-power of Everia. 505-490 B.C.

The Eretrians 'rule the waves' for fifteen years, according to Eusebius. They must therefore have begun not later than 505 B.c. Now though Athens sent the larger force to Ionia in 500, Herodotus lays some stress on the contingent from Eretria, 20 and emphasizes the pictus which bound Eretria to Miletus, as the real reason of their mission. Eretria therefore was of some peculiar importance in Greek waters at the time of the visit of Aristagoras; and it is not necessary to scratch very deep into the phil-Athenian veneer of Herodotus' history to discover that it was Eretria, as the event proved. 31 and not Athens, which from the Persian point of view was the primary objective of the expedition of 490. What the Persians could not well foresee was that, thanks to Themistokles and some others, the little finger of Athens would be thicker than the lone of Eretria.

Now the date 505, which, according to the reckoning of the List, is the initial year of the Eretrian sea-power, falls a year or two later than the last act of the Peisistratid drama in Athens; and it was in this last act that the Athenians & νοτερον εμελλοε μνήμην ποιέεσθαι Βοιωτών και Χαλκιδέων: with the result which Herodotus describes as the Double Battle on the Euripus. Chalcis fell, and received an Athenian eleruchy; and all this happened about the time of the reforms of Kleisthenes, and a little before the

<sup>11</sup> Hdt vil. 145.

Filth, vii. 48. Compare Strabo, 375, all-n V δονίν [5 Alyden] 6 sal θαλαττοκρατώσεισα κοτε καί πυρί πρωτείων διαφισθητήσεισα πρός 'Αθηναίων δυ τή πορί Σαλαμίνα επιμαχία κατά τά Περσικά.

on Hill v. 09.

<sup>#</sup> See Goodwin, Le. 67 usp Hill vi. 45

everywhere 2s for ve 'Epérpuir en 'Abipus : ch vi.
04, 88, 100, 101. He unter also that when the
Athenians retired from Jonia in Hdt. v. 103,
there is no mention that the Eretrium retired
two; and infers, not improbably, that they
stayed. They did not, however, fight at Lade.

28 Hdt. v. 74, 77.

visit of Aristagoras. We have no precise date for the 'Double Battle'; but three points are clear: it fell somewhere between 508 and 500; it involved the cooperation of somebody's fleet for the passage of the Euripus; and it had the effect of paralysing for a generation the agelong rival of Eretria. I think we can learly doubt that here also we have the glowing Athenian version of an affair which had more than one aspect; and that what the έθνεα Βοιωτών inscription really commemorated was an event, which an Eretrian would have described as the establishment of Eretrian sea-power, and the reversal of the verdict of the Lelantine War. At all events Herodotus' narrative and the date 505 for the Eretrian Thalassocracy shed a very interesting light on one another, and increase the probability that the numeral 15 in the Excerpt is right, and the 7 of Syncallus wrong.

Note also that it was very shortly after 505, that Thebes, deprived of the aid of Chalcis, began to negotiate for that of Aegina against her amphibious enemy; and shortly after this, again, that the deripuscos wokenes began. The effect of the latter was to cut off Athens from Eretria, so far as the Sunium-route was concerned, and to retard by ten years or more the rise of an Athenian sea-power; but inevitably, also, to throw Aegina's Saronic rival, Corinth, into the most benevolent of neutralities towards Athens. How far is all this the consequence of the entanglement of the newly-won sea-power of Eretria in the affairs of Aristagoras of Miletus, a very poor imitation of the Thrasybulus who was the "friend of Periander" of Corinth, nearly a century before i. 31

### § 7.—The Sea-power of Naxos, 515-505 B.C.

The predecessor of Eretria, however, is not Chalcis, but Naxos, with a sea-power of ten years duration. Herodotus has not much to say in his history about Naxos; but all that he does say is entirely to the purpose.

The proximate cause of the Ionic Revolt, he says, was a recent change in the balance of power in the Cyclades. The waxers of Naxus had been expelled; and this offered, from the point of view of Aristagoras, a favourable opportunity for establishing with their aid a Persian protectorate over the islands. Clearly, too, the same events which had expelled the waxers had also favoured the democratic party in Naxos itself. What were these events, and how do they bear upon the transfer of supremacy at sea from Naxos to Eretria?

Of the previous history of Naxos we learn from Herodotus only this; that one of the consequences of the establishment as τύραννος in Athens of Peisistratus, whose immediate base of operations had been in Eretria. had

had been under Naxon recently in 501; see Hits. v. 31 and n. 42 below.

<sup>\*</sup> Hdt. l. 20 v. D2, and p. 111, below.

<sup>#</sup> Hdt. v. 80,

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been the establishment of his protegé Lygdamis as \u00favvos of Naxos; 37 and presumably the expulsion of a more or less oppressive oligarchy from the island. And now we find that shortly before 500 the mayers or oligarchy of Naxos had been expelled by a democratic rising, and were trying to get help from Miletus, which, though apparently phil-Eretrian, had been since the days of Cyrus consistently loyal to Persia. 8 Now unless the Peisistratidae were installed, or at least expelled, very much later than is commonly supposed, these two data can hardly refer to the same crisis in Naxos. But if they do not, then we are anthorized to infer a third fact: namely the collapse of the ruparries of Lyglamis, and the re-establishment of a government of wavels in Naxos: for unless they had returned to power in the interval, they could not have been expelled shortly before 500, in the circumstances stated by Herodotus. We get, consequently, the following outline scheme for the history of Naxos in the sixth century :- (i) oligarchic régime, lasting down into the Peisistratid period, and presumably not phil-Eretrian; (ii) the ruparvis of Lygiamis, under Peisistratid, that is phil-Eretrian, protectorate; (iii) oligarchic counter-revolution, presumably not much earlier than the collapse of the Peisistratid tyrauny, and probably anti-Eretrian; (iv) renewed democratic activity, and appeal of the emigres, as usual, to Persia, through the intermediation of Persia's chief naval dependency in the Aegean, namely Miletus. We begin to see some light on the circumstance that Aristagoras. simultaneously divests himself of his philo-Persian Tuparris, and secures for a democratic movement in Miletus the sympathy and the assistance of Eretria.

All this suits very well the data supplied by the List. The fall of Lygdamis and the return of the oligarchs to Naxos, if it occurred about 515, would come to us as an early symptom of that Peisistratid decline which came to a crisis somewhere about 510. And in 505, or soon after, one of the first results of the fall of Chalcis was to set Eretria free to support its ancient proteges, the Naxian δομος, in a second expulsion of their oligarchy.

Finally, to clinch the connexion between Naxian sea-power and the Naxian oligarchy, let us return to the advantages held out by these παχείς as the price of the support of Persia. Naxos, they say, has 9,000 hoplites—Athens had only 13,000 at the height of her power—καὶ πλοία μακρὰ πολλεί. and enjoys a hegemony over Paros, of Andros, of and the rest of the Cyclades.

<sup>= 11</sup>di 1564.

Note in passing that reports within the limits of the Persian Empire maint something totally different politically from reports in a free Greek scan. It was in fact assentially unti-democratic, a foreible of garchy-of-one. Hence the fonic Revolt begins with a wholesale reporters cardinages and the smallishment of irowain in Miletin, Hdt. v. 37, 38, and is appeared by a wholesale recognition of bymosparia, Hdt. vi. 43.

<sup>10</sup> Hill. v. 80.

<sup>&</sup>quot; Incidentally we see here the significance

of Millindes' attempt to annex Paros, as seen as Athens is beginning to see her way through her entanglements with Aegina. She is picking up the picces, as elsewhere, of the Eretrian down.

<sup>&</sup>quot;Yet in Strabe, 448 (p. 97, n. 33, above), Andros is reckoned as a tributury of Eretria. It would obviously be one of the corneratouss of an Eretrian sea-power; and a considerable Augs, in the hends of Nexos.

II The fact of a Naxim see power is admitted, also in Diod v. 52: see also Suidas, a.s., Nationpy as surfaces.

#### § 8.—The Sea-power of Lacedaemon. 517-515 B.C.

It is above this point that our serious difficulties begin. The variation of the numeral (2 in Eusebius, 12 in Syncellus) is not hard to explain, for the emission or addition of  $\iota$  in the combination of  $\iota\beta'$  is only too easy.

But which figure is right !

If we had the Samian numeral, which precedes it, it would be easy to decide: for, as we shall see, we have fairly good evidence for the date of the fall of Phocaes, which gave the Samians their chance, and for the rise of Polyerates, which enabled them to seize it. But the Samian numeral is missing in the Excerpt; and though we shall be able to make out a fairly good case for the numeral 16 or 17, it is only on the hypothesis that Syncellus is wrong that we are justified in restoring it in the Excerpt. We are therefore thrown back on external evidence mainly, both for the Lacedaemonian and for the Samian sea-power.

If we had any accurate dates in Spartan history during this period, we might be able to piece together the evidence for Spartan sea-power, in a form which would test conclusively the data of the List. But none of the three events which postulate such a sea-power at all, is very precisely fixed. (1) The Libyan expedition of Dorieus at does indeed satisfy the conditions positively. Unless the fall of Sybaris can be displaced from 510, Dorieus first expedition cannot have set out later than 514, or earlier than 517. (2) The expedition of Anchimolius to Attica is usually put later than 515; but it is not precisely dated; Herodotus is much more prone to compress than to stretch his intervals; and we have seen already, in the case of Naxos, that the decline and fall of the Peisistratidae may have been a slower affair than is usually supposed.

(3) The Spartan expedition to Samos causes greater difficulty, and involves once more the chronology of the next state upwards on the list. It presumes a considerable degree of sea-power on the side of Sparta: it was, as Herodotus contends, an elaborate and important affair; and it is dated by him with some precision: for he says that it occurred during the rupanuls of Polycrates, and about the time of Cambyses' expedition against Egypt. On the strength of this, Lepsius long ago assigned it to 527; which would just bring it within the 12 years given by Syncellus, if reckoned back from 515; and Goodwin accepted this date. But there is no good reason to assign to it on this ground an earlier date than 522 or 521; so and Syncellus' variant, if intentional at all, may very well be intended to include this famous incident within the period of the Spartan thalassocracy. But Eusebius' own

<sup>40</sup> Hdt. v. 42

<sup>\*\*</sup> Hdt. v. 63 vigarout 34 revenue serà #iAucres vasiones, and in sufficient force for their retreat to be in no danger, once they had re-embarked.

<sup>&</sup>lt;sup>36</sup> Legsins, Berl. Mountaker, May, 1854, p. 217. Goodwin, De potentiae veterism gentium suaritimarum epochis apud Buschiam, p. 63.

Diodorna i. 68 assigns the expedition to OL 63.3 (=521 mm.)

date for the Spartan expedition (Ol. 64.1 = 519 B.C.) is itself too high to fall within a two years thalassocracy, if those years ended in 515.

We are therefore reduced to a choice of three views. (a) Syncellus may be right, in principle at all events, and the Spartan sea-power may have to be extended upwards. As we have not the numeral for the Samian sea-power, we cannot disprove this; all we can stipulate is that the date shall not be higher than to cover the Egyptian expedition of Cambyses, and that it shall not conflict with any other evidence as to the sea-power of Polycrates.

- (b) Or there may have been an interval between the negotiations of Polycrates with Cambyses and the Spartan expedition to Samos. In this case the Spartan expedition may have fallen appreciably later than the expedition of Cambyses, and the real reason of Cambyses' neglect to help Polycrates may have been his death and the chaos into which thereupon the Persian Empire fell. In this case, it may very well have been the last desperate excesses of Polycrates which brought the Spartans to Samos, at the head of a mixed force of Corinthians and others, as the instrument of the general indignation. If the Spartan expedition were thus the beginning of the end of Polycrates, it may very well have fallen within the reign of Darius. and not very long before the final suppression of the Samian 'reign of terror,' In this case the so-called Spartan thalassocracy would represent little more than an interregoum (like that of 480-476) during which Sparta nominally led a loose confederacy, brought together for a special bit of police work, but dissolved as soon as any member of it such as Naxos, went its own way and created a genuine 'sea-power.'
- (c) Or, thirdly, the Spartan expedition to Samos may not have fallen within the period of the Sparten thalassocracy at all. We must remember that though successfully landed and backed by the Corinthians, it maintained the siege only forty days and retired ansaccessful; and that a fiasco of this kind could hardly be brought forward as evidence for a Spartan sea-power, even if it fell within the limits of date. This is the view which seems to me preferable: the Spartan expedition shows Sparta aiming at sea-power, and striking a premature and unsuccessful blow at the thalassocrat of the moment. But for the real thalassocracy of Sparta I am inclined to think (1) that we have to wait till Persia, not Sparta, had made an end of Polycrates,-shortly after the accession of Darius, and consequently not earlier than 521 and also not much later-(2) that the List is correct in assigning the two years 517-515 to this thalassocracy; and (3) that probably this short-lived sea-power with its sea-borne attack on Athens and its schemes of Libyan colonization is one of the early exploits which gained for the young Cleomenes the reputation of heing ακρομανής και ου φρενήρης. "

in or about 517. But if the surfler date, 520, should be maintained, it would have the mirantage of permitting us to lacinale the expedition to Samos within the period of activity of that great man; though in that case it is stronge that Herydoties should not have mountioned Cloomenns' name in communion with it.

<sup>&</sup>quot;I had not the opportunity of seeing Ma. Wells' paper on the Reign of Chemenes, in the last volume of this Jan-and, until the paper was already nearly completed; and I am not entirely convinced as yet by his arguments, preferring still to place the accession of Chemenes, on other grounds than that stated above.

We have still to account for the dates 513-511 given by Eusebius in the Conon. But this is simple when we remember that his starting-point was five years too low, and that so far he has only diverged by one year from the dead-reckoning of the Excerpt. Consequently when adjusted to 480 as zero-point, his dates 513 and 511 become 518 and 516 respectively; and allowing further for the current attribution of the starting-point of the Delian League to 476 not to 475, we have as the finally revised Eusebian dates exactly the years 517 and 515 which we reached by the previous argument.

### § 9.—The Sea-power of Samue. 534-517 B.C.

We are now on the very edge of the lacuna in the Excerpt, and we have only external evidence to go upon; apart from the vague indications of an original numeral 16, and the Eusebian dates 530-513 (giving the revised

(lates 534-517) with their interval of seventeen years.

But the sea-power of Samos is so closely bound up, in ancient tradition, with the personal fortunes of Polycrates that it is natural to turn to the date of his rise as a probable terminus a que, just as we have had to discuss the date of his fall to establish the terminus ad quem. Now Eusebius gives Ol, 62.1 (=533 n.c.) as the date of his accession. If this date could be shown to depend on the Excerpt we might have to revise it by four years, like the thalassocracy-dates in the Canon, and assign it to 537; but there is no proof of this, and we may probably take this date as independent evidence. We may therefore regard the year 533 as a probable approximation to the first year of Samian sea-power.

On the other hand Samos, in the List, succeeds Phocaea as mistress of the seas. If therefore we can fix the date for the fall of Phoenea, we shall have a precise upward limit for the Samian sea-power. Now Phocaea fell in the course of the Revolt of Pactyas, and the story of this is told by Herodotus in a context which puts it in close relation to the campaign of Cyrus against Babylon, which he gives as the reason for Cyrus' departure from the West, and the signal for the revolt. Now Babylon fell in 538, and we must consequently place the fall of Phocaes not much earlier than this, and probably somewhat later. We shall see reason, presently, for bringing down the date of the full of Phocaea as low as we possibly can; but meanwhile let us note that we obtain from the evidence just cited a minimum interval, for the Samian sea-power, of 16 years (533-517) and a maximum of 21 years (538-517) with a certain presumption in favour of the minimum. Now the Eusebian revised dates are 517 and 534, giving 17 years interval; the lapsus calami of the Armenian version (p. 91) seems to indicate that it was the numeral 16 which stood in the original text of the Excerpt. Also, the case of the Eretrians," and that of the Phocaeans, indicate a tendency on the part

<sup>\*</sup> In the case of the Eretrians the numerals in the latter the 10 years of the Naxisms, as are 15 and 26, but he has wrongly isolanded explained on p. 92, above.

of Eusebius, on any occasion when he adjusts the dates of a thalassocracy by the numerals of the Excerpt at all, to allow a 'year of grace' at the transition.

§ 10.— The Sea-power of Phoeaca. 577-533 B.C.

There is no doubt about the historical character of the Phocaean thalassoeracy. Throughdes names Phocaea alongside of Samos—δυνατώτατα γὰρ ταῦτα τῶν καντικῶν ἦν—and refers to repeated victories (ἐν/κων) over the Carthagmians.<sup>49</sup> Herodotus, too, knows of the Phocaeans as the earliest of Greek explorers in the West.<sup>30</sup>

Of course the whole of this westward activity did not fall within the 44 years of 'sea-power.' Eusebius for example puts the foundation of Massilia in 586, which if true makes it one of the numerous by-products of a very eventful time; 31 and the phrases used by Herodotus about the early Phocaean voyages can hardly refer to periods subsequent to the 'rush to the West' in the last half of the eighth century. But the policy of transferring Phocaea bodily to its western sphere of influence would have been hardly practicable unless the Phocaean hold on the West was still strong in the middle of the sixth century. All that is in question here, however, is the period during which Phocaea was, for whatever reason, predominant in the Agean as well; and for this the conclusive evidence is Herodotus' statement that it was Phocaea, not Samos or Miletus or Lesbos, which was regarded by Harpagus as the Hellemic ringleader in the Revolt of Pactyas; and that it was Phecaea which was provided, through the munificence of Arganthonius, with what was thought at the time to be an impregnable defence on the landside. Phocaea in fact was, for the moment at least, the πρόσχημα Τωνίης in the same sense as Miletus later; and like Unidus, and Athens afterwards planned to 'make itself an island;' and very nearly succeeded. Its commercial importance is further attested by the considerate offers of Harpagus 11 and by the subsequent jealousy of the Chians in the matter of Ocuassae.16

As to the chronology of this Phocaean sea-power, if the numeral (44) given in the List is right, the date, 575, given in the Canon for its beginning is certainly wrong; for it brings the end of the sea-power down to 531, several years later than the lowest possible date for the fall of Phocaea, which we have seen to be about 534. On the other hand the 'revised' Eusebian dates

11 See pp. 112-3, below.

Goodwin, I.a. p. 59 brings out well the force of the imperfect tense in this passage.

<sup>\* 1.165.</sup> The later writers [ii] out the story semiswhat. Justin's account is graphic and probably true: nampus Phenoceses, criquitate of mucis terror coasti, stationius mare quan terror correct: psecude, mercando, pirrangus circus latrocinio maris (quod illis temporatus glorius habebesur) ritam folerabant.

43. 3. Their loss attachment to the mainland comes out again in Herodetus' story, first, of

their voluntary exile after the revolt of Pactyes (i. 164), served, of the fats of Dionysius the Marrinot (vl. 17). Compare also Pausanias 10, 8, 6, and Strabo 179.

F Hdt. L 164. They recall the taction of Alysttes against Miletus, two generations before, L 27.

<sup>&</sup>lt;sup>38</sup> Hát. I. 185, δειμαίνονται με αξ μεν εμπέρουν γενωνται, ά δε αύτών εξισοι άπουλημοθή τούτου εξεναι.

would be 534 and 578. But even 534 is a 'lowest possible,' and if for any ceason the fall of Phocaea had to be put earlier,—which in the absence of a Samian numeral is quite possible,—either the upper date will have to go back higher than 578, or the Phocaean numeral, well attested as it is, will have to be regarded as corrupt as it stands. And this is by no means impossible: for it lies well within the penumbra of the lacuna in the Excerpt, and we shall see directly <sup>34</sup> that it has been partly responsible for further corruption, in the past.

### § 11 .- The Lacuna in the List.

This is as far as it is possible to go by direct reckoning upwards from the bottom of the List as we have it. It reveals the fact that wherever we can test the data in the List by external evidence, they present the appearance of genuine materials; and as our main witness throughout has been Herodotus, we may fairly claim that, if genuine at all, these data go back to ut least a fifth-century source; that is to say, at least to the period of the great Thalassocracy of Delos, which is pre-supposed, as we have seen, as the goal to which the sequence leads.

But above the Phocasan sea-power, we encounter successive difficulties. For the next four places (VIII-XI) the List is very ill preserved; and even where we have the data at all, they refuse to agree with the traditional course

of history.

If we accept, as above, the date 534 as the 'latest possible' for the close of the Phocaean thalassocracy, and reckon backwards from it with the numerals given in the List and in the Canon, we are confronted with the following chronological scheme:

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Phocasan sca-power and 534 | lasts 44 | begins in a.c. 578 | Kus. [ - ] Jar. [ - ]. Lesbian | 578 | 68 | 646 | 671 | 671. Carian | 646 | 61 | 707 | 730 | 720. Milesian | 707 | 18 | 725 | 760] | 756. Egyptian | 725 + [no numeral preserved] | [794] | 784.
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Now an Egyptian thalassocracy ending in 725 would fall in the early part of the Ethiopian Dynasty. 30 and in the reigns of King Usorkon III. of Thebes 57 and King Tefnekht of Sais. 30 But at this time Egypt was disunited; and the Delta, in particular, was divided among a number of petty chiefs. An Egyptian thalassocracy therefore is quite out of the question at this time; and the same is in fact the case right on to the year 664, when the revolt of Psammetiches freed Egypt from Assyria, unified the country, and rapidly created that phil-Hellene and Mediterranean sea-power which was used to such effect by Necho, both for peaceful and for offensive ends.

<sup>#</sup> P. 105, balow,

<sup>4</sup> Inferred from Jerume's avidence, as explained on p. 93.

Piankhi I reigned 745-725 or later.

Petrin, Hist. Eg. Hi. 268,

 <sup>755-780.</sup> Petrie, Hist. Eg. iii, 282.
 749-721. Petrie, Hist. Eg. iii, 314.

Now no amount of adjustment of the lost Samian numeral will relieve this discrepancy in the case of Egypt; even if it were possible to bring the Phocaean dates lower; and this we have seen is out of the question. Three possibilities remain. Either (1) there was some renom (now lost) for assigning to Egypt a sea-power before that of the XXVIII Dynasty; or (2) the List, which has hitherto presented every sign of genuine historical tradition, must be thought to change its character, altogether, somewhere in this section; or (3) there must be something gravely wrong with the numerals for Lesbos, or Caria, or Miletus, or more than one of them.

The first hypothesis is ingeniously handled by Goodwin, who brings together evidence to show that a well-attested Greek tradition, at least as old as Herodotus, did actually dislocate Egyptian history in the period indicated by the Eusebian dates (794—750 inclusive) and assigned to the eighth century the 'Pyramid Kings' of what we call the IVth Dynasty. But this interpretation, though it throws an important light on the Egyptian narrative of Herodotus, and explains how the data in the List as we have it escaped criticism in Hellenic times, does not account for the very marked discrepancy between the Lesbian numeral and the Eusebian interval assigned to the Lesbian sea-power, and leaves out of account the cumulative evidence, which we have already collected, against the trustworthiness of the Eusebian text in this section.

The second hypothesis is a counsel of despair; and is best met by the proof, which follows in §§ 15-17, that in the places immediately preceding the difficult section the List does give accurate historical information. For if this is so, it is difficult to see why the List's authority should be bad in the seventh century, if it is good in the sixth and eighth.

The third hypothesis is that to which we have already been driven by the consideration of the textual evidence; and as soon as we begin to advance further into what I have already described as the 'lacana' in the List, we shall find evidence accumulating rapidly in its favour. The logical procedure would be first, to survey briefly the historical evidence, such as it is, for the thalassocracies of Lesbos, Caria, and Miletus respectively, so as to see whether Greek tradition gives any support to the doubtful numerals; then, to marshal the non-Greek testimony to the historical character of the numerals above the lacana; and then to return to the numerals which fall within the lacana, to see what attempt can be made to explain their corruption, and to restore the true figures. But some repetition will be saved by anticipating the result of the second enquiry so far as will allow us to discuss the restoration of the true figures for Lesbos, Caria, and Miletus para passe with our criticism of the corruptions.

# § 12.—The Sec-power of Lesbos,

The List, as we have seen, gives no numeral for the sea-power of Lesbos, Jerome's version of the Canon supplies the numeral 68; but as it has no entry for the Phoenean sea-power, we cannot tell what interval was reckoned for that of Lesbos from its initial date 671. The Armenian version of the Canon assigns the same initial date; and the year 575 for Phocaea: giving an interval of 96 years. Here is a serious discrepancy to begin with.

The Canon also assigns the war between Athens and Leabos to 611; and identifies Phrynon the Athenian general, who was killed therein by Pittacus of Leabos, with the Phrynon who was Olympic victor in 632 (=OI, 36). Ensebius also dates from 620 the tyranny of Periander of Corinth, who arbitrated in this quarrel; and the Eusebian dates for Alcaeus and his contemporaries go back also into the seventh century. All these dates probably stand or fall together. Whether Eusebius tried to recover a numeral which was missing in his List by the aid of Phrynon's Olympic date, or whether the numeral which he read in the List led him to his identification of the two Phrynons, we cannot now tell; but it is clear in any case that if Jerome's numeral 68 is right, Eusebius disregarded it in calculating the interval between the 'accession,' so to speak, of Lesbos and that of Phocaca.

At this point we should remember, first, that the Lesbian numeral falls within the limits of the textual lacuna: second, that the silence of Syncellus, and of the Armenian entry, as to the numeral, shows that the lacuna is at least as old as Eusebius. Can we trace the corruption any farther back?

An obscure passage of Pliny suggests that we can. Speaking of Lesbos he says restant Errses, Pyrrha, et libera Mytilene, annis MD potens. Now by no chronological ingenuity can Mytilene be given a potentia, naval or other, extending over 1500 years. But it can hardly be a coincidence that the Greek symbol MA represents the numeral 44 which stands in the next place in our List, opposite the name of Phocaea; and nothing is more probable than that in transcribing from Greek into Latin, the symbol MA should have been made into MD. I think we may fairly infer from this passage of Pliny, first, that Pliny had among his authorities, either all, or part, of the same List as Eusebius ascribes to Diodorus; second that either Pliny or his authority had this List in such a condition that the Lesbian name became associated with the Phocaean numeral, to the consequent extinction of its own.

Now such a corruption would be very much more likely to occur, if the lost Lesbian numeral were something which resembled 44, than if it were not; and none of the modes of representing 68 (txviii or  $\Xi H$ ) is the least likely to have caused such a confusion with any of the modes of writing 44 (xliv or  $M\Delta$ ). Nor is any of the modes of representing the Eusebian interval 96 (xvii or  $\nabla \Sigma$ ) at all liable to such confusion; not to mention the fact that this interval gives a date which is itself inconsistent with the historical evidence as to the XXVIth Dynasty, without allowing anything at all for the thalassocracies of Caria, Miletus, and Egypt combined. On the other hand, either a 4 ( $\Delta$ ) or a 40 (M) might very easily fall out in favour of the 44 of Phoenes and we shall presently see that there is a good deal to be said for a very short sea-power for Lesbes.

But how did Jeromo's 68 get into the vacant place? Two conjectures

may perhaps be permitted. (1) Written in Latin minuscule the numeral lawiii, with the long flourish to the v. differs only by a couple of strokes from minuscule leshii; and we have seen already, from the examples of Pliny and of Syncollus, how easily confusions arose from the intermixture of alphabetic and numerical groups in a document. Jerome certainly dictated his Canon; and if he found a numeral missing, hesitation and repetition of the word Leshii are only too probable.

(2) Or the corruption may have arisen in the Greek text of the List itself, as follows. The Milesian numeral 1# (=18) followed by the Carian numeral ΞA (=61) and preceded by the lost Egyptian numeral—which I hope to show, in the sequel, to have been Ξ (=60) or ΞA (=61)—can hardly have failed to lead sooner or later to the intrusion of the combination ΞH (=68), when once the true numeral had been absorbed, as Pliny's mistake shows, into the Phocaean numeral below it. Or again, if at some stage or other of transcription the numerals were in words, the sequence ἐξήκοντα—δέκα-δκτώ—ἐξήκοντα-δενα is no less provocative of the blunder ἐξήκοντα-δενα.

But what of the external evidence for the duration of Lesbian seapower? That there was such a sea-power is indicated, apart from the passage of Pliny, by several authors of late date; and though Herodotus does not mention a sea-power explicitly, he notes Lesbos, twice over, at a later date, as a state with ships to spare; " and he also describes, without precise note of date, a state of things in which Sigeum, which had belonged to Mytilene, was captured after a long war, by the Athenians, and secured to them by the arbitration of Periander. There was, however, further fighting even in the days of Peisistratus' son and lieutenant, Hegesistratus. Now this participation of Peisistratus in the affair shows that Herodotus fixed the Athenian capture of Sigeum, and the arbitration of Periander not very much earlier than 570; and Athenian operations in the Troad could hardly have been possible till after the annihilation of a Lesbian sen-power, if such ever existed. On the other hand, supposing such a sea-power to have existed and to have been destroyed, as the List suggests, by the Phocaeans about 578, the opportunity of its downfall was a good one for the Athenians to seize a half-way house to those new markets in Pontus which the policy of Solon had secured to them. Note also, as evidence of the view which contemporary thalassocrats and others took of Athenian enterprise in Hellespont, the troubles which befell Miltiades the elder from Lampsacus, the colony and local agency of Phocaea; and the vigorous counterstroke of Croesus of Lydia whom Herodotus depicts, as in the cases of Solon and Alemaeon, as thoroughly phil-Athenian in policy."

In all this we have a lifth-century version of the same set of events as in Eusebins. Periander, Alcaeus, and the rest play their parts in the

<sup>\*</sup> Hdr. v. 26, vi. 26 28. Note that in the fifth century also Myttlene ranked with Samos and Naxon as a contributor of setual squadrons to

the Delian Leagus.

Ilds. i. 29, vi. 37, 125.

struggle between Athens and Lesbos in both; but the fifth-century version pins the whole sequence down to the first half of the sixth century, and to the generation of Peisistratus and the elder Miltiades, instead of allowing

it to stray up into the seventh.

On the question of the upward limit of Lesbian sea-power, indeed, Herodotus has nothing to say; for the story of Arion of Lesbos, " so far as it is pertinent at all, belongs to the cycle of Periander, and gives no fresh evidence about Lesbos, except in so far as Periander, in this context, is reckoned a contemporary of Thrasybulus of Miletus, and of Alyattes of Lydia, whose period we shall have to define in § 14. There is, however, one Herodotean statement outstanding, which makes strongly for the later dates for Lesbian sea-power. Pittacus of Lesbos probably stands in the same relation to the Lesbian sea-power as Polycrates to that of Samos, and Thrasybulus to that of Miletus; and Pittaeus is introduced by Herodotus " as a contemporary and adviser of Crossus. As to their relative ages, the passage tells as much, or as little as the analogous passage about Solon; and it can hardly refer to any point within the period of Pittacus' administration of Lesbos, for he is not described as tyrant, only as the Mutchingarion. It is, however, noteworthy that, just as Solon is the sage whom Croesus consults as to internal prosperity, it is to Pittacus that he turns for advice about his projected navy. Once bitten, twice shy. If the List is correct, and it was the Phocaeans who had wrested naval supremacy from Lesbos, and were holding it all the days of Croesus, Pittacus was of all men the most proper to bid Croesus beware of the sea.' at

# § 13.—The Sca-power of the Carians.

In place X the Excerpt has a lamma in both columns; and Syncellus is silent. But the Armenian version of the Canon gives the Carians, with the numeral 61 and an interval of 59 years, from 730-671; while Jerome, reckoning backwards from the same terminal date, gives an interval of 49 years (720-671) and no numeral.

Even the smallest of these intervals (49) is too large to allow the Egyptian thalassocracy to come down lower than 637 'at latest', even ignoring Lesbos and Miletus altogether; while, allowing 4 years for Lesbos and Jerome's 18 for Miletus, it gives to Egypt the terminal date 659. Clearly there is something wrong here also no amount of reduction of the Lesbian numeral alone will make the List conform to the conditions imposed by the known history of Egypt.

This is not the place to go into the Carian question at any length; but the summary, which follows, of the principal Greek theories about the

Carians, may perhaps clear the ground somewhat,

these dates suit very well the terminal date 578 'at latest,' which is indicated by the Phocasan evidence.

<sup>#</sup> Hdt, 1, 23,

et Hdt. i. 29,

<sup>&</sup>quot;The later writers incline to put the syrunais of Pittacus between 500 and 550, and

Herodotus <sup>65</sup> and Thucydides <sup>66</sup> agree as to a Carian sea-power, or occupation of the Aegean islands, in pre-Minoan times. Opinious differed, however, in the fifth century as to whether the Carians were originally islanders or mainlanders: the Greeks knew that they had completed the expulsion of Carians from the islands in historic times and confined them to the mainland of Caria; the latter-day Carians of Caria claimed autochthony where they actually lived, and ignored (or had forgotten) their insular expansion.<sup>57</sup>

But two other items of Hellenic belief are clear. One is that, in spite of Mines, a Carian occupation of certain islands went on still after the Trojan War. This is best illustrated by certain passages of Diodorus; <sup>38</sup> but is presumed by Herodotus' statement that it was Ionians and Dorians who expelled the Carians from them finally.<sup>30</sup> The statement of Diodorus moreover is repeated and precise, that it was after the Trojan War and before the Hellenic colonization (and therefore immediately after the Trojan War) that the Carians exercised sea-power, and occupied, or reoccupied the islands. It is therefore surprising that the List, as given on the authority of Diodorus in the Excerpt, begins not with the Carians but with the Lydians and Maconians.

The other Helienic belief is that in the days of Psammetichus the bronze men from the sea 'were conjointly Ionians and Carians. Now these Carians can hardly have been insular Carians, for the colonization of the islands by Ionians and Dorians had by this time been complete for some conturies. They must therefore have been the Carians of Caria, the immediate ancestors of those more or less Hellenized Carians who figure as the aliies of the Ionians in the revolts of Pactyas and Aristagoras.

How do these two items of belief affect our interpretation of the List? First, it is clear that Diodorus believed that any possible List beginning post bellum Troianum mure tenserunt must have begun with the Carians; and that this belief is implied in the statement of Herodotus as to the colonization of the islands. Second, if we add up the numerals given in the List for places I-VII inclusive, we reach the total of 382 years; and this total if reckoned back from the earliest possible year for the beginning of an Egyptian seapower, namely 664, only carries us back to 1046, more than a century short of the Eusebian date for the Fall of Troy (1184), and almost exactly contemporary with the foundation of Miletus and the older Ionian and Dorian

<sup>66</sup> Hdt L 171.

<sup>&</sup>quot; Thue, L. 4.

For Carina autochthony compare siso Diod. v. 60, Paus 7, 2-4 passing, and Comon Norv. 47. Strabo 661 is explicit as to the discrepancy of current theories, and attempts to harmonize them.

Especially Died. v. 84. nera 84 rise Tonias Elwan Köpes adjusteres on whose scaharroughture cal rise Kunlabar school spartrange risks per ling sortoxos e.v.l., und the

passings about 65mm (v. 55), arrà de raise Transcott yedrout surformer the ribout Küpes, sub' by yedrout folkarrospotrous. In both cases the rventa are earlier than the Hellenin colonization. Compare also v. 51, 54, 60.

Hdi, i. 171. μετά δέ τοὺς Κῶρας χρόνω δετνους τολλώ Δωριές το και "lares έξι ανέστησας δετώς είσως, και υθτώ ές της Ετειρου απίπουτο. Company Strabo 661.

<sup>&</sup>lt;sup>39</sup> See also Goodwin, i.e. pp. 53-4, and Diodorus, i. 66.

colonies in the islands and Asia Minor. It follows from this, that the List as we have it, is incomplete at the top; and on the evidence before us we can hardly doubt how the facuna at the top is to be filled, namely by the

insertion of the Carians in place O, of the diagram on p. 88.

But it is very unlikely that any one people was inserted twice over in a systematic list of this kind, unless there was some very good reason for it. Goodwin, indeed, supposed that the insertion of the Carians in place X was an attempt to make use of the mention of Ionian and Carian adventurers in the days of Psammetichus. But he argued on the assumption that the whole List was a late compilation by Diodorus or Castor; and we have already seen what reason there is to ascribe to it a much earlier and more authoritative origin. But Goodwin's suggestion is very nearly right, all the same.22 We have already one instance, in the List, of a sea-power, in place I, which bears a double title Lydi qui et Macones. Just such a double title is used by Herodotus to describe the auxiliaries of Psammetichus; and we shall see in the next section how strong the evidence is for the belief that the ringleaders of all this Levantine adventure were the men of Miletus, the one great 'Ionian' city which was also on the sea-board of Caria. I venture therefore to suggest that the original designation for the sea-power in place IX was Milesii et Cares; and that the separation of the Carians from the Milesians is the work mainly of a damaged text-for it is just here that the lacuna is at its worst -; but also partly of a generation which had forgotten its Herodotus, and argued from later circumstances—the Miletus of Aristagoras, the Caria of Artemisia and Maussollus, and the general confusion of thought about the Carians,-Arst, that Miletus must have stood alone, and second, that room must be found in the List for the Carians independently.

We have still to deal with the Eusebian numeral 61, of which the Eusebian interval 59 is an obvious accommodation, and Jerome's interval 49 a further modification which affects all Jerome's dates from 671 back to 893 or earlier (p. 93). But we have seen already that we are here in the heart of the lacuna; we may note the probability of confusion between the Greek ≡ A and the Latin XI which marks the succeeding place in the List; and we shall see presently that the historic duration of the Egyptian sca-power, reckning from the establishment of Psammetichus in 665-4 to the defeat of Necho by Nebuchadnezzar in 605-4, gives us exactly the figure 60-61 which, if, as appears, it got separated from its context in place VIII, was available for annexation to the Carian name, when this latter broke away from

place IX.

sixteenth generalism; and this is actually the initial year of the guneration of the "pilgrimfathers" who colonized Milatus

The fifth-century systems for this is the genealogy of Hernianus of Miletus, as given by Herodotus ii. 143. This genealogy "went up to a god" (i.e. human ancestry failed) in the sixt-math generation; and Hernianus was a grown man in 500 n.c. Supposing Hecataens to have been born in 500 at latest, and allowing three generations is a century, we arrive at 530+538=1063 as the initial year of the

<sup>(</sup>a) Goodwin's own solution was (i.e. p. 51) to insert the Carinos between the Thrucians and the Rhodians, accepting the hint of Syncelins that the latter were aura to the right σόματο. But see below p. 126, as to the significance of this variant.

# § 14.—The Sea-power of Miletus.

Jerome alone gives a numeral (18) to the sea-power of Miletus. He dates it from 748 to 720, giving an interval of 28 years, ten of which may be due to his discount of 10 years in place X. Allowing for this, as in the case of the Eretrian interval in place XVI, Jerome's Chmon-reckoning accords with his numeral 18, and to this extent confirms it. The Armenian version of the Canon gives 730 as the initial year of the Carians, but no direct

information about Miletus. Syncellus is silent.

We have seen already that a Milesian sea-power in the eighth century, though not in itself incredible, is rendered unlikely by the circumstance that Miletus succeeds Egypt in the List, and that an Egyptian sea power at this period is out of the question. We have also seen that the Carian sea-power must probably disappear, as a separate item, altogether; and that the sea-power of Lesbos is to be correlated closely with the repairely of Pittacus and the generation between Solon and Peisistratus. We should therefore look for the sea-power of Miletus in the opening years of the sixth century, and

the closing years of the seventh.

Now Herodotus has to treat the early history of Miletus rather fully; for Miletus is the πρόσχημα Τωνίης in more senses than one. Its earlier wars with Lydia do not concern us here; but the great war, of which the last five years fell in the reign of Alyattes comes just at the beginning of the period now under review. Alyattes came to the throne according to Herodotus in 617.73 and according to later authority in or about 610.74 Whatever the precise date of the formal accession of Alyattes, the war with Miletus would seem to have been over in the fifth year of his sole-reign, that is in 605; and from that time onwards, until the Ionic Revolt, Miletus enjoyed a peculiarly secure and privileged position landwards: neither Croesus nor Cyrus, as lords of Sardis, ventured to try conclusions again with the mistress of the Macander exit.

The year 605 was a critical year in the history of the Nearer East: for it stands on the eve of Nebuchadnezzar's advance against Egypt, and of the collapse of the 'bruised reed,' even Necho. It marks therefore the point at which Alyattes, like Gyges before him, and Croesus after him, found himself face to face with a political crisis in the Levant, which directly affected his own prospects in Asia Minor. It was no time to be harrying the territory of the metropolis of Naucratis, when the only result would be to withhold from his natural ally in Egypt those 'Ionian and Carian' mercenaries on

took the field, as King of Lydia; but left Alyatras behind in Sardia, as introcure and co-regent. Alyatras reckoned the years of his reign (as given by Hilt. I. 25) from this re-regency; but did not become commander-in-chief, wapade@dasses wapk for warphs for worker, so, till the death of Sadyattes in \$10.

<sup>23</sup> J.c. 57 years before the accession of Crossus (Hitt. i. 25), and 72 before the fall of Sardia.

The divergence of the date probably stands is direct relation to the statement of Herodotae (i. 16, 18) as to participation of Sadystics and Alyaites in this war. Probably the war broke out in 617 or 616; Sadyaites

whose aid the Saite dynasty was based. The year 605 therefore is in every way a probable date for the great peace between Alyattes and Miletus.

But the pretext given by Herodotus 75 for this reconciliation is quite different, and much more closely connected with our story. Here, it is the discovery that, do what he would, he could not story out Miletus, which changed the policy of Alyattes; and this is as much as to say that then, as afterwards, Lydia was powerless against an Ionian state, if that state had command of the sea.

Now it was the tyrant Thrasybulus, not unaided by his friend and ally Periander of Corinth, who brought this conviction home; and Periander's share in the matter is emphasized a few chapters further on, in thoroughly Herodotean fashion. The familiar tale of Arion and the Dolphin is retold by Herodotus in i. 23-4; but it is Periander who is in the part of the hero. It is Periander who is repressing piracy, even among his own shipmen; and we have not to read very far between the lines to see the same Periander active, as the ally of Thrasybulus, in keeping the sea-ways open, while Miletus is pre-occupied landwards. The loyal support of the Chians, moreover, when all the rest of Ionia held jealously aloof is further evidence of the completetiess of Thrasybulus' commissariat, as well as of Miletus' influence seawants; for Chios is not only the one great Ionian city (besides Samos, the ancient rival) which was inaccessible to Alyattes and at the mercy of an Ionian sea-power: but it commands that inside course between the mainland and itself, which in all ages makes just the difference on the voyage from the Hellespont southwards.70

At the moment of the treaty with Alyattes, therefore, we can see Miletus well supported at sea, and furnished with a powerful ally in European Greece. How did Miletus turn these advantages to account, on the cessation of the landward trouble! Two other circumstances recorded by Herodotus go far to complete an outline history for the remainder of the reign of Alyattes. In v. 28, he describes Miletus at the time of the Ionic Revolt as αὐτή τε ἐωυτῆς μάλιστα δὴ τότε ἀκμάσασα, καὶ δὴ καὶ τῆς Τωνίης ἢν πρόσχημα, τε καθύπερθε δὲ τούτων ἐπὶ δύο γενεὰς ἀνδρῶν νυσήσασα ἐς τὰ μάλιστα στάσι, μέχρι οὐ μεν Πάριοι κατήρτισαν. Now we do not know the date of this Parian reconciliation, but we do learn that the τυρατούς of Histiaeus and Aristagoras had been preceded by two generations—or say 60 years—of divisions and disorder. But Histiaeus was already tyrant at the time of the Scythian Expedition; not later, that is, than 510, and probably somewhat earlier. Some interval also, though not necessarily a long one, must be allowed for the

<sup>74</sup> Hill 1, 20-22

<sup>7</sup> For an early instance see ('algossy iii, 170-175. It was only after 'the god showed them a sign' that they ventured across from Lesbes to Enbosa καθύνερθε Xiase instead of going 'Instith.'

<sup>&</sup>quot; This, it should be noted, was at the

moment when Aristogoras was planning under the protectorate of Persia to wrest from the Nariaus the begenning over the Cycladea, which since the sevolution of 505 n.c. (p. 98) and the full of Chaleis, they were no longer in a. position to defend.

Parian' constitution—a kind of 'ministry of affairs —to fall into disorder and give place to the tyronnis; and before this come the two generations of stasss. The beginning therefore of this period of distress cannot be put much later than 575, and may be considerably earlier. But what government was it, the fall of which inaugurated the period of distress; and what changes of economic conditions or external politics brought about the fall of this

government?

The régime under which Miletas became once more the πρόσχημα Lowing was, as we have seen, a tyrannis, though the foundations of material presperity may well have been laid by the Parian reconciliation. The same was the case both in Samos and in Lesbos, at the period of their several seapowers; and at Milecus also the great compact with Alyattes was the work of another tyrannis. But in Greek states the effects of a tyrannis were as a rule transient, not permanent,—the happier fate of Athens was the exception, not the rule ,-and in the case of Miletus it is clear that after a while the strong government of Thrasybulus collapsed. We may also conjecture, in default of further information, that it was this collapse which inaugurated the two generations of discord. So important an event is clearly worth fixing if possible; and all the more so, because, if the analogy of Sames and Lesbos is worth anything, the fall of Thrasybulus should be closely connected with the fall of the Milesian sea-power, just as the first appearance of Thrasybulus coincides closely with the first symptoms of its rise. Now we have seen already that the Milesian sea-power probably began about 605; and Jerome's Canon indicates that it lasted 18 years. It should therefore have ended not earlier than 587. But we have already seen reason to believe that it ended not later than 575; and we reached this latter date only by the most rigid compression of a long and vague series of events; the phrase 'two generations' for example is quite as likely to have meant 65 or even 70 years as the 60 years which we allowed to it. But can we not fix the date of this loss of sea-power more accurately?

The other occurrence recorded by Herodotas, which concerns Miletus at all, is the war between Alyattes and Kyaxares. It lasted five years, and was terminated by the 'Battle of the Eclipse' in May 585. Here at all events we have a date astronomically determined, and generally accepted as certain. This struggle also, like the siege of Miletus by Alyattes, marks the close of a period, and most be studied in its context. Nearly a generation had passed since the fall of Ninevell; and the bipartition of the Assyrian Empire had resulted in a delicate balance of power. The Media of Kyaxares and the Babylonia of Nebuchadnezzar (the AaSúrytos of Herodotus i. 74) stood face to face, armed rivals; each hampered by a western enemy, Media by Alyattes and the Lydian begemony  $\tau \delta r \dot{\tau} \tau \bar{\tau} s$  "Alues, Babylon by Saite Egypt; each conscious, too, that the western enemies were united, now as ever, in concerted resistance to Oriental aggression. Wedged between each pair of antagonists lay the cockpit states, Cilicia and Judaea, each leaning on its own

bruised reed for fear of the probable aggressor. Behind all, linking together the two western land-powers, and furnishing, to both, the skill and courage which made the struggle so nearly even as it was, lay, as we now can see, the Milesian sea-power; supreme, probably, on the water, between Naucratis and Sinope, and reinforced in its turn by a network of alliances: Periander's Corinth, Solon's Athens, and Sybaris and its friends in the far West: for the days of Democedes and Polycrates were not yet. The only cloud in the

Milesian sky is the recent apparition of a new topayros in Mytilene.

This roughly represents the situation in the Nearer East, in and about 590. But in the next five years the scene is changed. First, some time in 591, Kyaxares found a sufficiently plausible excuse for declaring war on Lydin,785 incidentally putting the Cilicians on his left flank έν σκέπη τού φόβου. Next. Nebuchadnezzar seized the opportunity of his rival's preoccupation northwestward, and of some provocation from Apries, who became king of Egypt in 589,79 to make a final end in 587 of the Egyptian outpost at Jerusalem; and in 585-4 he was once more victor over Egypt. Kyaxares had been less fortunate; the Lydian war dragged on ambignously, and in 585 Nebuchadnezzar, who had now got all he wanted in the south-west, is found associated with the king of Cilicia in putting pressure on both Kyaxares and Alyattos to leave their quarrel undecided. If events went further in that quarter, Kyaxares might even win; and meanwhile the Battle of the Eclipse had given both sides a scare: της μάχης τε έπαύσαντο, και μάλλον τι έσπευσαν και αμφότεροι είρηνην έωυτοίσε γενέσθαι. The sun which really was darkened was that of Pharaoh Necho; the king of Babylon was now unhampered by anxieties south-westward; and from peace the northern powers went on to friendship and alliance. The Halys frontier was accepted as an obvious compromise; Astyages son of Kyaxares murried the daughter of Alvattes, and the friendship thus inaugurated endured until the coming of Cyrus.

How did all this effect the position of Miletus? Badly at all points. The recovery of Egypt by the East, even momentarily, dealt a severe blow to Nancratis and Milesian interests generally: it also deprived of a profitable livelihood those Ionian freelances who formed the backbone of the Egyptian army. The sudden peace between Media and Lydia had the same result; in addition it set Santis free to attend to more lucrative business than Cappadocian warfare; and this was bad for the tertins guadens who had been working the route of the Macander, and the exit of Smope, during the war. Miletus, moreover,-if as our List suggests, it had assumed in 604 the rôle which Egypt was forced to resign, and if, as we may probably assume (for its interests compelled), it had aided Egypt in the campaign of 585-4,-was in no good odour in Babylon, if not positively excluded from the ports of Nebuchadnezzar's sea-front. It would, moreover, have been a little sudden for a Milesian to enlist, as a Lesbian was free to do, in the service of the king of Babylon; and the king of Babylon, on his part, having attained his objects. was more probably paying off, than enrolling. It was clearly a period of

sudden, and probably acute, distress; and nothing is more likely than that we should assign to this fateful year 585-4 the deposition of Thrasybulus, and the opening of the long stasis of Herodotus v. 28.

There is a further piece of evidence, the discovery of which we awe to Dr. Winckler, though, writing briefly, he has not, I think, developed its full significance. The statesman who rescued Lydia from Kyaxares, while annexing Judaea and Egypt to himself, was not likely to leave out of his reckening the third principal partner among the western powers; and it would be most instructive to find Nebuchadnezzar, in the same year 587 which saw the first move in his south-western war, taking note of an ally of Egypt 'far away in the midst of the sea.' Such a mention of an oversea ally of Egypt appears to occur in a well-known but fragmentary inscription of Nebuchadnezzar. The On the strength of a descriptive geographical term Putha jaxon, and of a mutilated personal name ending in know, Dr. Winckler identifies this state with the Lesbos of Pittacus, though the context is wanting, and we have merely the probability that communications of some kind were passing between it and Babylon. But the evidence is not convincing. Puthu javan is not strictly senst nicht bekannt as he says; the termination kn-m hardly proves more than that some Greek name in -kes is meant; the syllables, on which Dr. Winckler relies, are not for certain parts of proper names at all; they are separated by a whole line of lacuna from the description of the country to which he assigns them; and in any case the inscription itself refers to a campaign not earlier than the 37th year of Nebuchadnezzar. Now Nebuchadnezzar's 37th year fell in 568; and this inscription consequently has no bearing whatever on the events of 587, or on any part of the political career of Pittacus.

It is however of some importance to find, first, that Nebuchadnezzar had his eye even later on some western sea-power which was supporting Egypt; second, that another inscription of Nebuchadnezzar mentions again a 'far region in the midst of the sea,' as sending contributions to a temple-restoration in Babylon.

It is here I think, that we come nearest to Pittacus of Lesbos, though not so near as Dr. Winckler would have us believe. From Nebuchadnezzar's first inacription we are led to suspect that Amasis of Egypt had Greek allies. From his second we gather that Nebuchadnezzar himself had an oversea tributary at some period or other of his reign. From Alcaeas we know that about the period of the rise of Pittacus, the natural refuge of an exiled Lesbian was to enlist under the king of Babylon; and from the Thalassocracy-List we learn that Lesbos succeeded Miletus in the command of the sea. If we ever have direct evidence of tributary behaviour of Lesbos or of Pittacus

This inscription, of which Dr. Winckler only gives a brial mention, is published to full by Dr. Pinches in T.S.B.A. vii. (1882), pp. 210 ff., and again by Strassmater Inscription on Naturchedonoses (1889), p. 194, No. 329. The original is in the British Museum, and I

owe them references to the couriesy of Mr. L. W. King, of the Department of Egyptian and Assyrian Antiquities.

<sup>&</sup>lt;sup>34</sup> Quoted by Dr. Winckler, Lc. p. 31, from A. O. v. 4, p. 29.

towards Nebuchadnezzar, it will only confirm what seems already probable, that Lesbian ambitious found encouragement and opportunity from Babylon and gave the last shock to the tottering sea-power of Miletus.

Now under these circumstances the following conclusions seem to be justified: first, that the numeral 18 for the Milesian sea-power is approximately correct; second, that this sea-power began shortly after Nebuchadnezzar's attack on Egypt in 604, and ended about the time of the 'Battle of the Eclipse' in 585; third, that the rise of the Lesbian sea-power, if it occurred as early as 586, justifies the numeral 8 which we have seen to be one of the components of the corrupt series (60) 18, 61, 68 in the List; while if it occurred as late as 584 it justifies the numeral 6, which comes thrice over in its compound \$\xi\sigma\conva; fourth, that it is only by accepting, as in § 10, the 'latest possible' date for the fall of Phocaea, that we arrive at an interval of as many as eight years at all, and that consequently, if the fall of Phocaea should for any reason be transferred as far back as 538, there would be only 4 years to spare for Lesbos between our earliest date for the fall of Miletus and the resultant date for the rise of Phocaea; and we have already seen (p. 105) that there is some probability that 4 was the lost Lesbian numeral

#### § 15.—The Sea-power of Egypt. 664-604 B.C.

No numeral for the Egyptian sea-power is preserved directly at all Syncellus and the Armenian version are silent; and Jerome gives only the dates 783 and 748, with an interval of 35 years.

We have seen already at that Jerome's dates are out of the question; that the only period within which an Egyptian sea-power is conceivable at present begins with the establishment of Psammetichus in 664; and that only on the hypothesis that Egyptian sea-power ended soon after the defeat of Necho by Nebuchadnezzar in 605—4 can the sea-powers in places IX—XI of the List be restored to an intelligible form. We have now to collect the evidence for an Egyptian sea-power during this period, and establish so far a may be the hypothesis on which we have been working hitherto. \*\*E

The account given by Herodotus <sup>30</sup> of the establishment of Psammetichus as king of Egypt states definitely, first, that 'Ionian and Carian' adventurers had then recently begun to harry the Delta; second, that Psammetichus took these adventurers into his own service, and founded a camp-town for them between Bubastis and the sea; third—and here Herodotus appeals to archaeological evidence still extant in his own time,—that this settlement included a naval establishment.<sup>84</sup> If the question be raised, of what use

<sup>&</sup>lt;sup>11</sup> P. 103, above.

As a matter of logical argument, this Egyptian section should have proceed \$\$12-14; but it seems more convenient to preserve the chronological order and discuss the sea-powers consecutively, while trusting to cross-references

to indicate the sequence of the reasoning.

<sup>44</sup> Hdr. II. 152-154.

<sup>\*\*</sup> Hilt. II. 154. Εξ Δυ δλ έξανδονησαν χώρων (in Ammin' mign), δε τούτοιαι δε εξ το έλκαλ τών εκών και τὰ έρεξτια τών οἱαημάτων τὸ μέχρι έμεῦ διαν.

was a naval force of this kind to Psammetichus, the answer is obvious. On the one hand, not all the ' Ionian and Carian' adventurers who came to Egypt came as his vassals, any more than the first who came and harried the Delta coast; in face of an aggressive Aegean, an organized coast-guard was Indispensable. On the other the success of Assurbanipal's invasion of Egypt in 668 had been largely due to the circumstance that the land army was escorted and protected in flank by a sea-force from Phoemeia, which had apparently recently come to a settled understanding with Assyria; and if Assyria were ever to threaten Egypt again, it would be by a similar combination of forces. On this ground also, therefore, Psammetichus had urgent need of a navy. Further, as soon as Psammetichus advanced, as he shortly did, beyond his own frontier eastward, a war-fleet and oversea transport became just as essential for offensive ends as they had been during the Syrian protectorate of the XVIIIth Dynasty, when the 'King's ships' are mentioned not infrequently. Of the actual exploits of the Egyptian sea-power, however, we have no direct statement in Greek literature, seeing that they did not concern the Greek world till we come to the reign of Necho; but here we have the great circumnavigation of Africa, so the opening of the canal between the Nile and Red Sea, 88 wide enough, as Herodotus says, for two men-of-war to sail abreast, i.e. a good deal larger than merely mercantile needs required; and an express account of concerted expeditions, with fleets of triremes, issuing from regular arsenals, 57 and taking part in his Syrian war,

The reforences to Egyptian mayal expeditions in Herodotus do not cease even with the death of Necho; and the invasion of Nebuchadnezzar is not even mentioned by him at all. Apries for example ἐναυμάχησε τῷ Τυρίφ<sup>\*\*</sup> and Amasis conquered Cyprus<sup>\*\*</sup> But by this time, as the re-foundation of Nancratis, and other symptoms show, the relations between Egypt and its Grock allies, and between Egypt and its eastern neighbours, are very different; the Syrian policy of Psammetichus and Necho is abandoned, and even for coast-defence we hear nothing of a regular navy. The evidence is or course very meagre throughout, but there is enough, I think, to support the general thesis that from the accession of Psammetichus to the defeat of Necho Egypt was a strong naval power, practically predominant in the Levant, phil-Hellenic, and anti-Phoenician to begin with, but eventually in Necho's time exercising some sort of overlordship over Phoenician seamen, as the story of

the African voyage shows.

New the interval from 664 to 604 is 60 years; and we have seen that if we can assume the numeral 60 at this point in the List we are able to explain the whole series of corruptions which occupy the lacuna between the sea-power of Phoenicia and that of Phoenea. Still better should we be able to explain them if we could date the collapse of Necho's fleet to the year 603; for this would give us first the numeral 61, which is the exact numeral

<sup>\*</sup> Hdt. iv. 42: The normal navigators are here Phoenicians in the Egyptian service.

<sup>=</sup> Hdt ii 1188

<sup>&</sup>quot; Hill. it. 159. The Tre of Sanct entrance.

<sup>\*</sup> Hdt ii. 161.

<sup>≡</sup> Hdt. II. 182.

assigned wrongly by the Canon to the Carians, and second the exact date 585 instead of the approximation 586 for the close of the eighteen years' seapower of Miletus. And fortunately the details of Nebuchadnezzar's attack are still sufficiently obscure for the date 603 to be quite a possible alternative.

Dr. Winekler's theory, to which further allusion must be made in the next section, assumes that formal 'sea-power' only passed from Phoenicia to Egypt somewhere about the time of the accession of Necho in 631; but he gives no reasons at all, either for ignoring the reign of Psammetichus, or for rejecting the 35 years' interval given by Jerome, in favour of his own interval of 26 years, which neither helps to explain the dates in the lacuna, nor conforms to any external evidence. And we shall see, when we come to the sea-power of Phoenicia, which precedes that of Egypt in the List, that it is only by reckoning backwards from the year 664 that we can reach any sure equivalents for the dates which the List assigns either for Egyptian sea-power or for the sea-powers next above it.

# § 16.—The Sea-power of Phoenicia, 709-664 B.C.

We are now at last clear of the lacuna. The List gives 45 years to the Phoenician sea-power in place VI: the Armenian version is defective; and Syncellus is silent; but Jerome gives the same numeral 45, with the dates 836 and 783, and consequently an interval of 52 years. As similar evidence is available for the sea-power of Cyprus in place VI, and as the Armenian version becomes available, in addition, for that of Phrygia in place V, we are in a position to test the reconstruction which we have attempted by a quite different line of argument. Hellenic evidence had already begun to fail us, in dealing with Miletus and Egypt, and fails us altogether in regard to Phoenicia and Cyprus; but we have now got back into the century of the great Assyrian chronicles, and into a geographical region which comes well within their ken and the next step in the argument is obvious. If on comparing the dates in the List with these contemporary records of the early history of the Levant, we discover no correspondence whatever between the two series of dates, things will look bad for the authenticity of the upper part of the List, in a section where the text is unquestioned. If, on the other hand, we are able to point to a series of Levantine crises, involving, or indicating, transference of sea-power from one people to another, and separated from each other by just that series of intervals which the numerals in the List assign to successive 'thalassocracies' of these same peoples, then we shall be in a very strong position for claiming real historical value for this section of the list; and a crucial verification of our hypothesis as to the Egyptian dates, and for the reconstruction of the corrupt section of the List, which we have based on it.

I have already explained that it is to Dr. Hugo Winckler of Berlin, and his recent use of the List of Thalassocracies in relation to Euphratean politics, that the appearance of the present essay is due. In discussing the successive phases of the dealings of Assyria with Tyre, he points out that though in earlier times the Phoenicians had shown themselves not unfavourable to Assyrian ambitions, the capture of Damascus by Tiglath-pileser in 732 inaugurates a period of misunderstanding and opposition, which lasts intermittently from 732 to a little before 668, and is ended by the annexation to Assyria of the whole of Tyre's dependencies on the mainland. Tyre itself however, retained its independence, became the firm friend of Assyria, and co-operated with Assurbanipal in his Egyptian campaign.

Why did not Tyre itself surrender, and why did Assyria desist at this point from attempts to capture it? Clearly, according to Dr. Winckler, because Tyre—like Miletus in its war with Alyattes—could count on help from some other quarter than the mainland; and because Assyria at last

discovered that further violence was useless.

It is at this point that Dr. Winckler brings in the data of the List of Thalassocracies, which gives 45 years to the Phoenicians, preceded by 33 years of Cyprian sea-power, and this in turn by 25 years of Phrygian thalassocracy. He recognizes, as the counterpart of the Phrygian Midas of Greek tradition, a prince known to Sargon II. as Mita of Muski (Midas of the Moschi), who apparently succeeded to the begemony of the Khatti in Asia Minor in the latter part of the eighth century, reasserted its ancient claim to Syria, and attacked Sargon in Little Armenia and Cilicia, but was

repelled by Sargon, and accepted his overlordship in 710.

Dr. Winckler assumes that among the rights ceded by Mita to Sargon was the headship of a Mediterranean sca-league, the centre of which was an Apollo cult, somewhere out west: perhaps at Delphi, seeing that Midas of Phrygia was famous as a benefactor of that shrine. He suggests, further, that the reason why certain kings of Cyprus came and did homage to Sargon about the same time as the surrender of Mita, was to secure from Sargon the title of thalassocrat, and recognition as head of this same Mediterranean league. A well-known stele of Sargon himself, found at Larnaka, and now in Berlin, shows that the allegiance of Cyprus to Assyria at this time was something more than nominal; and Dr. Winckler is certainly right in regarding the year 710, or more probably 709, as a critical date in the history of Cyprus.

If, as Dr. Winckler supposes, the year 709 marks the beginning of the sea-power of Cyprus recorded in the List, the close of this sea-power and the rise of that of Phoenicia ought to fall 33 years later, that is, in 676; or if Jerome's numeral 23 is preferred, in 686. Dr. Winckler contents himself with an approximation, 680-670, and points out that it was about this period that Tyre, after suffering a five years siege, surrendered to Assyria its mainland possessions. He thinks that, if Tyre had received no compensation for this, it must have sunk into insignificance, and that the only compensation possible was the transfer to it by the king of Assyria of the privileges.

granted by Sargon to Cyprus in 700. A number of circumstances in the previous history of Phoenicia, and particularly of Tyre, seem to him to suggest that Tyre had expected such a grant, as the reward of its support of Tiglath-pileser in his Syrian War; that, disappointed then, Tyre 'would not be happy till it got it'; and that this was the cause of the long period of fractiousness which followed. Other indications, such as the asylum offered to Tyrian malcontents by some 'island' in 701, suggest that the Cyprian 'thalassocrats' had misused their privileges, and deserved to have them withdrawn by the paramount power; and there was certainly an open revolt of one king in Cyprus in 675,

Somewhere about 675, then, Dr. Winekler dates the beginning of Phoonician (i.e. Syrian) sea-power; and the numeral 45 in the List leads him to assign its close to the year 630. Certainly both Tyre and Sidon, and also certain kings from Cyprus, took part in Assurbanipal's Egyptian war in 668; but Dr. Winekler gives no explanation of the transfer of sea-power from Phoenicia to Egypt; and neglects altogether the complete revolution in the relations between Assyria and Egypt which took place; as we have seen, in 664. He takes, however, the same view as is proposed in § 15 above, as to the circumstances under which sea-power passed from Egypt to Miletus in or about 605. The Carians he merely omits to notice; and his treatment of the Lesbian sea-power has been briefly mentioned already in § 14.

Such in onthine is Dr. Winckler's interpretation of this part of the list. Its cardinal points, as we have seen, are as follows; first, the hypothesis that a state counted as a 'thalassocrat' only because (and so long as) it held a titular office or licence conferred by the Great King, and was a sort of comes literis Saconsici charged with the maintenance of order on the Mediterranean sea-front of an Assyrian empire; swood, that Egypt did not acquire sea-power till somewhere about 630; third, that the transference to Phoenicia coincides with the surrender of Tyre's mainland possessions to Assyria somewhere about 675; fourth, that the embassies of Mita and the kings of Cyprus in 710, or soon after, mark the transference of this title from Phrygia to Cyprus.

With all respect to so distinguished an Orientalist as Dr. Winckler, I do not see that any one of these four points is established by his arguments. His hypothesis as to the nature of 'thalassocracy' is not implied by anything in the extant evidence: It breaks down at once when applied to the earlier part of the List, to Rhodians, Thracians, and Pelasgians; and it fails to give any explanation of the transfer from Phoenicia to Egypt. For Necho, like his father Psammetichus, was in a state of open rebellion against his formal suzerain, and it is difficult to see why the Tyrians, who were now ex hypothesis loyal to Assyria, should be stripped of their long-coveted dignity to decorate an impenitent usurper. The case of Egypt in fact is the clearest

<sup>&</sup>lt;sup>31</sup> The date which he actually gives is again an approximation 635-625. This is due to the vaguoness of his dating for the submission of

Tyre, and partly also to his respect for Jerome's variant numeral 23 for Cyprus.

evidence that the epithet 'thalassocrat' was purely descriptive of the actual situation, and was applied to the ruler of the waves because he did rule them, and only so long as he continued to do so. Least of all was it dependent on the whim or the policy of a land-power somewhere in Mesopotamia. The hypothesis also explains nothing. Even supposing such a title to have existed at the Assyrian court, the Great King was most unlikely to endanger his own prestige by conferring it on anyone but the de facto ruler of the sea. Formal investiture, at best, only followed, and legitimized, the attainment of the substance of sea-power.

Dr. Winckler's second point, his treatment of Egyptian sea-power, has been already discussed in § 15. Its fundamental defect is that it ignores altogether the reign of Psammetichus, and assigns sea-power to Phoenicia, the vassal of Assyria, all through the period when Psammetichus was engaged (for example) in the great siege of Ashdod, which would hardly have been practicable without command of the sea. It is clear also that it is to the reign of Psammetichus that we are to ascribe the opening of Egypt to Hellenic enterprise, and the very remarkable spread of Egyptian style and manufactures among the sites and tombs of Cyprus; yet both of these movements would hardly have been possible, if the Phoenicians had dominated the Levant.

His third point, the interpretation of the Phoenician phase, is hardly more satisfactory. At best it gives only approximate dates, whereas the numerals in the list are precise. It is also not quite clear why Tyre should be less likely to be an annovance to Assyria, if it had sea-power de inve; nor is continuous revolt the essiest way to obtain titular concessions from an overwhelmingly powerful suzerain. On the other hand, if we reckon back the 45 years of Phoenician sea-power from the crucial date 664, when in spite of the Phoenician contingents Egypt samehow shook itself free from Assyrian rule, and if we consequently assign to Phoenicia a sea-power de facto for the period indicated in the List, we perceive at once an excellent reason why Tyre was able to make itself such a troublesome neighbour to Assyria; and also why, in the last ten years of its sen-power, it changed its mind and played for Assyrian support against new competitors at sea. Most important of all, if we reckon exactly the 45 years of the List backwards from 664, we arrive at the very year 709 which is the probable date for the submission of Cyprus to Sargon.

# § 17.—The Sea-power of Cyprus. 742 (732)-709 B.C.

The List gives 33 years to the sea-power of Cyprus; Syncellus is silent; the Armenian version is defective; the manuscripts of Jerome give 32 or 23 for the numeral; and an interval of 28 years, from 893 to 864. Both XXIII and XXXIII are easy corruptions of XXXIII, and we have had no occasion yet to question a numeral from the Excerpt; while Jerome's figures are obviously of the most haphazard kind.

There is no reason to doubt the fact of the Cyprian embassy to Sargon, on which Dr. Winckler bases the fourth main point of his theory; and its date seems to be most probably 709. But we do not know, from Sargon's account of it, what it came to do. The only outstanding evidence is that of the stele of Sargon from Larnaka, and the evidence which it supplies of a real submission of Cyprus about that time. On Dr. Winckler's theory this marks the beginning of the sea-power of Cyprus; but I venture to suggest that it is just as likely to signify its close. Phoenicia, as Dr. Winckler says, had been markedly aggressive landwards since the fall of Damascus in 732, and, from the occurrence of Phoenician names in the lists of kings from Cyprus, it is clear that it had been aggressive seawards too. Cyprus, however, was not by any means wholly Phoenician: a majority of the names of Sargon's visitors in 700 are clearly Hellenic, and in the next generation it is plain, from the scattered references which survive, that the island presented much the same spectacle of social and cultural feud as it did two centuries later at the time of the Ionic Revolt.2 Meanwhile, all this corner of the Levant was infested in this generation by sea-miders, such as those who had harried Sargon's seaward flank in Cilicia during his war with Mita of Muski," and those who had held Ashdod against him in 711. Some of these are even specifically named as Ianna; and they are regarded by Dr. Winckler as representatives of the Phrygian sea-power. It is, however, at least equally possible that they may have represented a sea-power with its headquarters in Cyprus; and in any case the surrender of Mita, and Sargon's pacification of Cilicia about 710, left Cyprus exposed to attack from the north as well as from the Syrian coast, whenever it should please Sargon to move. Under these circumstances, and especially if Phoenicia was preparing to recoup itself for losses on the mainland by intervention in Cyprus oversen, it may well have been good policy for the Greek kings of Cyprus " to make terms with the remoter enemy, and, like Gyges in the next generation, to accept an Assyrian protectorate when they found their sea power slipping from them. Sargon was in fact already much too powerful for Tyre to attack even an oversea vassal with impunity; and his long war with Tyre in the years following 708 has all the appearance of the sequel to the Cyprian embassy in 709.

Now if the sea-power of Cyprus ended thus in 709, it should have begun, according to the List, in 742; and this is precisely the moment of the reappearance of Assyria, under Tiglathpileser, as an aggressive power on the Syrian coast. Tiglath-pileser's war with the federated Aramaean states, between the Euphrates and the sea, lasted from 745 to 740, and ended with the submission of Arpad, Damascus, and the Phoenician states. It forms therefore just such a crisis in the affairs of the adjacent mainland as would be an opportunity for an anti-Phoenician faction in Cyprus to assert itself seawards, with the help of

F Hdt v. 104, 108-115.

<sup>64</sup> Winskin, Lr. p. 24.

<sup>64</sup> It should be noted however that the Themleian party in Cyprus.

deputation to Sargon included the king of Kitten, and Kitton was usually a stronghold of the Physician restricts Courses

the forerunners of those 'Iauna' who troubled Sargon and of the 'Ionians and Carians' of Psammetichus. For we may safely assume that the generation which saw the foundation of Syracuse and Naxos in the West was quite competent to interfere in the Levant, if a favourable moment should occur.

### § 18.—The Scu-power of Phrygia. 767-742 B.C.

But what had been the political position of Cyprus in the years preceding 742? Assyrian chronicles and Greek tradition are alike silent; and our only hope of information is from the archaeological record. Cultural changes, of course, though they may prove close intercourse between adjacent areas, cannot prove political conquest of the 'provincial' region by its cultural 'metropolis'; but political conquest is one of the commonest ways by which a dominant culture is propagated; and long-continued political dependence almost always leaves traces of itself in the culture of the subject-area.

Now the problem in the archaeology of Cyprus, which led me in the first instance to the study of the List of Thalassocracies, is this. After the collapse of Mycenaean or Late Minoan conditions in the Aegean, Cyprus, though it seems to have enjoyed a Mycennean twilight longer and brighter than that of most other parts of the Levant, passes over in due course into an Early Iron Age culture in which the characteristic features are by no means wholly those which would be expected in an area so closely adjacent to Phoenicia, Palestine, and Egypt, In particular, the supersession of cylindrical and scaraboid scal-stones by a series of hemispherical, cubical, and conical forms like those of similar age in Asia Minor and North Syria, the peculiar technique of the painted pottery, and certain very marked types of iron weapons, seem to connect Cyprus much more closely with the Cilician coast and its hinterland than with the Syrian coast and Assyria. This phase of the culture of Cyprus is to all appearance a long one; and it is immediately succeeded by a phase of which the characteristic novelties are imitations of the later geometrical styles of

Knowntki, and the frontier members of the Anatolian group of states. It consequently marks even more clearly than 742 a definite opportunity for Cyprus to separate itself from this Anatolian (or, as the Greeks called it, 'Phrygian') connexion, always supposing that it had not already done so in the former year, as indicated in the text. The year 732 is in fact the only possible alternative date to 742, and it is remarkable that Jerome's variant numeral should point so definitely bowards it. In column J of the table on p. 88 I have accordingly rerkoned all the dates above this point from hold starting-points collaterally.

<sup>&</sup>lt;sup>35</sup> If for any reason Jeroma's alternative numeral 28 should become more probable, it would be necessary to assign the beginning of the sex-power of Cyprus to 782; and in this case also Assyrian history provides a striking analogy. For the year 732 is actually the year of the final fall of Damasons, the ringlessies of all that Assyrian group with which Tiglath-pulsest began his struggle ten years earlier; and this fall of Damasons is not only the event which was regarded at the time as the crowning achievement of the Assyrians went of the Euphrates, but also that which set Tiglath-pileser free to deal directly both with the coast towns of Phoenicia, and also with Cilinia.

Rhodes and Crete, and the resumption of intercourse with Egypt, indicated by importation of amulets and scarabs of glazed ware. This latter phase can be approximately dated, by the occurrence of 'proto-Corinthian' imports, as contemporary with the first Hellenic settlements in Sicily; and these were ascribed by Greek tradition to the latter half of the eighth century, and particularly to the years between 740 and 730.

In view of this aspect of the archaeological evidence, it is certainly noteworthy to find that Cyprus is preceded in the List of Thalassocracies by the Phrygians; that the dates, so far as we can reconstruct them, assign the transference either to 742 or to 732; that the same period is signalized by the first renewal of hostilities between the new Assyria of Tiglath-pileser, and the state or confederacy or group of powers which held the Taurus frontier, and its fortress outposts in Northern Syria; and that these hostilities lead straight to the collapse and surrender of Mita of Muski, and immediately afterwards to the submission of Cyprus to Sargon. I venture therefore to propose the following reconstruction, in outline, of the last half of the eighth century, so far as Anatolia and the Levaut are concerned.

- (i) The Phrygian conquest of Phrygia represents a prolongation southeastward of the Thracian and Phrygian irruption across the Hellespontine region of which we have repeated hints in Greek tradition from Herodotus onwards; and results in the establishment, in the interior of Asia Minor, first, of a confederacy or hegemony των έντος "Αλυος and next, of the Cappadocia and Cilicia which the Mermaal Kings were twice prevented from annexing Such a power, expanding eastwards during the period of Assyrian collapse in the early part of the eighth century, would find nothing to oppose its claims to the old 'Hittite' provinces south and east of Taurus, as far as Carchemish and the Euphrates. Its access to the Cilician coast, perhaps also to that of Pamphylia and the Eurymedon, would give it the same ports and the same maritime forests which later on permitted the pirate régime of the second and first centuries; and the co-operation of land-power and sea-power finds again its historic counterpart in the understanding between those pirates and Mithradates. In the north, we have already seen (p. 85, n. 12) that Greek tradition. preserved the memory of a local 'thalassocracy of Sinope' in Pontus, which again finds close analogy in the Mithradatic age. In the west, the Greek legends of Midas, the preservation of his reputed offerings at Delphi, and the parallel which Herodotus evidently felt between his political position and that of Gyges, suggest that the same 'Phrygian' power extended seawards also here, and made touch with the infancy of Ionia. It is not to be expected that, in face of an Anatolian power of this kind, Cyprus, so rich in copper and timber, so defenceless strategically, and so close to Cilicia, would be able to hold out long; and we have seen how clearly its culture betrays its temporary indebtedness to the mainland.
- (ii) On the other hand, no sooner did Assyria revive, from 745 onwards, and reconquer for the East the cis-Taurine districts, than the seaward parts of the 'Phrygian' régime broke loose from the rest, and formed, round their island citadel, the 'sea-power of Cyprus'; reinforced, in due course, if Sargon's ter-

minology may be pressed a little, by 'Ionian' adventurers from the west coast, who foreshadow that independent Ionia with which Gyges came into conflict so soon as Lydia too broke loose from the rest of Anatolia a generation later.<sup>30</sup>

# § 19.—The Upper Part of the List.

We have seen in the preceding sections (§§ 16-18) that the numerals which are preserved by our List for places V, VI, VII offer a series of striking coincidences with actual crises in the Levant, as soon as they are dissociated from their Eusebian context, and reckoned backward from the earliest possible year for an Egyptian sea-power. Now this verification of the bypothesis with which we began not merely confirms our assumption as to the probable date and duration of that sea-power, but justifies us in accepting as probable the restoration which we have attempted of the numerals within the lacuma, in places VIII, IX, XI, and in concluding that the List, whatever its date, not merely agrees with the testimony of Herodotus, so far as that testimony extends, but goes back with accuracy into a period of history for which Greek tradition has hitherto yielded no systematic chronology of early date at all.

In the light of these considerations, it is clear that the numerals in places 1-IV deserve much more respectful consideration than they have usually received hitherto; not because either Greek or Oriental records throw direct light upon them, but because, unless it can be shown that the List suddenly changes its character between place IV and place VI, the presumption is that it gives us, here also, a genuine record, in outline, of a very obscure period of history.

The dates given by the List, if its numerals be adjusted to the date 742 suggested above for the rise of the sea-power of Cyprus, are as follows:—

San-power of Lydians 1956-984 m.c. Easebius 1168 - 1988 Jorome 1174-1958.

... Pelasgians 964-879 m.c. ... 1988-[1964] ... 1956-1907.

... Thumbans 879-800 m.s. ... [1903 - 925] ... 1907-915.

... Risdians 809-767 m.c. ... [925]- 903 ... 915-893.

... Phrygians 767-742 m.c. ... 903-[--] ... 898-864.

The dates given in brackets fall within a period where the Armenian version is defective; but they can be supplied, within a year, through the

It is worth noting, however, that Agron's date, as given by Herodotas (505 years infore Gyges), when reckoned from 686, the probable date for Gyges establishment in Sardis, brings the Hameloid composit of Lydis into the third year of the Trojan War (1191); just a generation after the great compagn of the Phrygians on the Sangarias which Priam results in Read iii.

<sup>&</sup>quot;How far the Herodotson designation of the predecessors of Gygrs as 'Heracleids' may be taken to indicate a reguled kinship with the Heracleids of European Greece, who are of the same ultimately Northern extraction as the Turaco-Phrygian intruders, is a further question for as sarily as the time of Heradotas the Heracles who is ancester of Agron is also ancestor of Belus and Ninus, and has obviously become identified with the Oriental Haracles.

circumstance that the sum of the numerals in places II, III, IV (85+79+23=187) is within two units of the difference between the initial date of place II and the terminal date of place IV (1088 B.C. + 903 B.C. = 185).

In the absence of detailed evidence there is little to say about these dates; but a few detached points should be noted.

#### § 20.—The Sea-power of Rhodes. 800-767 B.C.

The variant, noted by Syncellus, which placed the Rhodians in place V, may have either transposed them with the Phrygians, or taken account of the lost place O which we have seen reason in § 13 to assign to the Carians. The former alternative, though it would have the advantage of grouping four states of the Thrace-Phrygian group together at the head of the list, does not seem to me probable, for the reasons already stated as to the connexion between Cyprus and the Anatolian region. The latter, on the other hand, supplies one further bit of evidence in favour of the initial Carian sea-power which we have been already led to suspect. In either event, Rhodes was well situated to play, as occasion arose during the Thrace-Phrygian domination, the same part as afterwards during the period of Galatian inroads.

The dates 800–767 fit very well the phrase of Strabo, to the effect that Rhodes had sea-power 'even for some years before the Foundation of the Olympia'; for the Olympic era would fall within the last ten years of this period. The phrase 'far from their own country' refers clearly to the reputed colonies of Massilia. Parthenope, Elpias, Sybaris, and the Balearic Islands; 190 and the words ἐπὶ σωτηρία τῶν ἀνθρωπων acquire a new meaning, in the present state of our knowledge of the disturbed condition both of the Aegean and of Western Asia Minor during the period of the Thraco-Phrygian irruption. For such a movement must be regarded as supplying much the same stimulus to emigration from the Asiatic coasts, as the 'Dorian Invasion' had supplied in the case of European Greece.

# § 21.—The Sca-power of the Thravians, 879-800 B.c.

Herodotus knows of a great migration of Teucrians and Mysians into Europe in prehistoric times, and also of the Thracian origin of the Phrygians of Asia, but he gives no date for either. The later writers give much detail as to the Thracian raids on both sides of the Aegean, reaching as far as the

Strabo, 654. Ισνορούσι δέ και ταύτα περί
τῶν Ροδίων, ότι οὐ μάνου ἀφ' οῦ χρόνου υνυψεισκε
τὸν νῶν πόλιο κότ ὁ χουν κατά νὰ λιατταν,
ἀλλά καὶ πρό τῆς "Ολυμπικῆς θέσεως συχνοῖς
εταικε ἔπλεον πόρρον τὰς είπεῖας επὶ σωτηρία πων
ἀνθρώπων. With this tevised chronology,

Goodwin's reference (i.e. p. 24) of the 'Ox.

<sup>&</sup>quot; Strabe, Lr.

Steph. Res. a.vv. Djodorna, v. 55, 54.

Masander, 101 Naxos, 102 Attica, 103 Bosotia, 104 Phocis, 103 The mention of Naxos is particularly instructive, as it shows that, like the Pelasgians before them (in Lemnes and Imbros), they were not confined to the mainland. Diodorus statement that these Thracians held Naxos for 200 years does not affect the authority of the numeral 79 in the List; for it is much easier to

get into an island than to get out again.

Some of these Thracian raids are given in a context which connects them with the 'Coming of the Heracleidae,' (a about 1080; but on the Asiatic side the Thracian invasion of Bebrycia (ac. Bithynia), which is an event known to Herodotus, is associated by Jerome with the dates for the Thracian 'sea-power.' But the most graphic description, and also the most probable perspective for this whole phase of irruption is that of Orosius. Horum praeteres temporum medio interisecut existin nunfragiaque Graccoum; and then he goes on:—fatorum ignari Thraces, nova in bella surgentes, et generalis tune per totam Asiam Gracciamque commetio.

# § 22.—The Sea-power of the Polasgians. 964-870 B.C.

I do not propose in this context to enter on an examination of the mass of traditions about the Pelasgians; only to point out that whereas in Homer 197 Lemnos is still in the power of the descendants of its Argonautic conquerors, Greek tradition is manimous in regarding its occupants as in some specific sense 'Pelasgian' from the dawn of Greek history down to the Athenian conquest of the island in the sixth century. In It follows from this that the Pelasgic conquest is post-Trojan, and in all probability also

post-Homeric.

On the other hand, Herodotus seems to assign the expulsion of the Argonautic or Minyan lords of Lemnos to the generation of the 'Coming of the Dorians'; and the description of Pelasgians in Crete, along with Dorians, in the Odyssey, 10 would seem to throw back the date of such 'Pelasgian' sea-power as was requisite to reach the South Aegean, at least into Homeric time, if not as far back as the generation of the Trojan War. Indications such as these, coupled with the geographical hints supplied by the Trojan Catalogue as to the habitat of the Pelasgian allies of Priam, suggest that the conception of this people which underlies the inclusion of their name in our List at this point 111 is that of a specific and well-localized people, of

ne Odmsey xix. 177.

mi Diodarus, v. 50.

im Strabo, 321.

<sup>\*\*</sup> Strabe, 401. Note that this is partly a 'Pelasgon' invold.

<sup>164</sup> Thurydides, H. 29.

<sup>108</sup> Strabo, 410, 423.

ma i. 18.

<sup>101 /</sup>filled vil. 407 ff.

<sup>-</sup> Hitt. v. 26, vi. 180 ff

<sup>-</sup> Compare the tradition which comes to us

through Diodorus, 19, 53, 7, of a Polisgian raid on Bosotia while the Bosotian army was away in the Trood with Agamemum.

in I hope before long to find eccasion to fiscuss at greater length the results of an enquiry into the historical development of the Greak conception of 'Palasgians' as presented to us in the texts of successive periods

Thrace-Phrygian antecedents, settled in the time of the Trojan War in South-eastern Thrace, but expanding (or extruded) thence into the Helles-pontine regions and the islands of the North Aegean, and as far as Crete and Attica in Homeric and immediately post-Homeric time. Thus, if 'Homeric time' may be interpreted, in the fifth-century sense, as a period ending about 950, this conception of a Pelasgian sea-power lasting from 964 to 879 would fit very closely. We have therefore, here, if not an indication of the historic truth of the List, at all events an additional proof of its conformity to fifth-century tradition, and of its independence of the main current of speculation on this subject, in the fourth century and later.

### \$ 23.—The Sea-power of the Lydians (Macmians), 1056-964 B.C.

Here the List, and the Armenian Version, give a duration of 92 years: Syncellus is silent: the Armenian Version allows an interval of only 80 years (1168-1088 g.c.); and Jerome an interval of 118 years (1174-1056 g.c.).

External evidence almost fails us; but our revised date, 1056 s.c., for the beginning of a Lydian or Maconian sea-power is supported, as against either of the Eusebian dates (which are more than a century earlier), by the consideration already noted in discussing the true position of the Carians in the List, that this date falls in the early part of the generation to which belonged the founders of Miletus and other principal cities of Ionia; and that these foundations in their turn, were regarded in antiquity as marking the close of the Carian domination over the islands. Of the relations which existed between these new foundations and contemporary Lydia, we know nothing directly. But we may fairly infer that they stood, to begin with, in much the same relation as the Tonian and Carian' adventures of a later age-maintained with Saite Egypt; and in that case a loosely organized coalition of sea-rovers hostile to the Carians, and handed together under the begemony of a king of Sardis, may very well have passed for a 'sea-power of Lydia.'

Any theory of a Lydian sea-power ought clearly to take account of the Herodotean story of the Lydian origin of the Etruscans. Herodotes gives no precise date, but puts the whole episode back into the period before the coming of the Lydian Herodoids; and this, as we shall see presently, involves a date not later on his reckoning than 1217, and apparently much earlier. Other fifth-century authorities adopted a similar 112 estimate, and dated the Tyrrhenian arrival in Italy eighty years before the Trojan War (=1274-1264). Thucydides, however, brings the period of tumult in Italy much lower, placing the expulsion of the Sikels from Italy into Sicily, which is one of its later phases, as low as 1030 ('about 300 years before the Greeks came to Sicily). This would fall within the period of the Pelasgian sea-power, on Jerome's reckoning, and would agree with the data in Herodotus as to the Pelasgian occupation of Lemnos, which so many later writers describe as

III Horodotus, I. 94.

Hal J. 29.

Philistus and Hellanicus ; ses Dhuya

<sup>334</sup> gl; 9

Tyrrhenian. For Hellanicus, meanwhile, all this sequence of events seems to have been prior to the coming of the Tyrrhenians into Italy; and, consequently, not later than about 1280, if Hellanicus was consistent in his dating. Clearly therefore there were in the fifth century two distinct theories about the Tyrrhenians in Italy. One, represented by the statements of Herodotus, Hellanicus, and Philistus, placed their arrival in Italy considerably earlier than the Trojan War, and connected it with the series of movements which we know as the Great Sea Raid of Merenptah; the other, represented by Thucydides, regarded its sequel as still in progress as late as 1030, or about the period of the Pelasgian sea-power: and it is curious to note here that Hellanicus, though he indicated the earlier date, seems to have adopted a Thessalian and Pelasgian, not a Lydian, origin for the Acgean emigrants. He has in fact adopted the date of the one version, and the content of the

Were there then two views current in antiquity as to the date of the Lydian sea-power also? I think there probably were. On the one hand we have the statement of our List; assigning this sea-power to a post-Trojan date, 1056-964; and to this we must add the curious statement of Eusebius that Sardis was captured by the Cimmerians 'for the first time' in 1078. On Jerome's dating of the Lydian sea-power, 1174-1056, this event falls right in the middle of it: but on the dating in the Armenian version, 1168-1088, it falls ten years after its close; and if as we have already seen to be probable, one of the elements which go to make up the discrepancy between the earlier dates in the two Eusebian Lists is the interval of ten years which is apparent in places IV and IX, it is not improbable that the true Eusebian dates for the Lydian sea-power may be ten years later; and, if so, its close will fall not in 1088 but in 1078, the very year of the Cimmerian raid. Here therefore we seem to have an indication of the actual event which cost the Lydians their sea-power; and an indication of the quarter from which their successors the Pelasgians were imminent, which is entirely in accord with the evidence of Homer and Herodotus as to the earlier seats of that people.

There is, on the other hand, more than one piece of evidence which suggests that a Lydian sea-power of some kind was believed to have existed considerably earlier. Stephanus "15 quotes Xanthus the Lydian for the statement that Ascalon in Palestine was founded by Ascalus, son of Hymenaeus, and brother of Tantalus, and ascribes the initiative of this colonization to a Lydian king Aciamus. Athennous 11 also quotes, from the same Xanthus, a story that Derketo, who plays a considerable part in the early mythology of Western Asia Minor,117 was drowned in the lake of Ascalon by the Lydian

together look almost like a Levantine counterpart of an Anethuan-legund ; and in view of the current probability of a very sarry Cretan (or at any rate South Aegean) settlement on this court, our abould perhaps compare also the Cretan legends of Britomartis.

III s.T. Acconus.

He & 37, p. 246 p.

<sup>11</sup> See Stark, (7ems (Jenn, 1852), pp. 41 ff., and Nicolas of Damassus, fr. 24-26 (Müller, F. H.G. iii. pp. 271-2). In E.M., a.v. Haberper Derkolo marries the river-god Kayster. The two stories

Mopsus or Moxus. The former of these legends would date the foundation of Ascalon about three generations before the Trojan War, or about 1300; for Tantalus is father of Pelops, and great-grandfather of Agamemnon; and this interval, reckoned back from the date 1194-1184 would bring the foundation of Ascalon right into the middle of the great Sea-Raids of Ramessid time (1319-1268). The latter legend brings Ascalon into connexion with the very obscure cycle of Mopsus-legends, which cluster mainly round certain early Aegean colonies in Cilicia, and round the generations of the Argonautic Expedition and the Trojan War. Now this period of sea-raiding in its turn just covers the period from the great Sea-Raid of Merenptah's time to that of Rameses III., which falls immediately before the date of the Trojan War.

Another corollary follows from a comparison of the Herodotean evidence. The Trojan War fell, according to Eusebius, between 1194 and 1184; but according to Herodotus 120 at least 800 years before his own time; not later that is than about 1230, and possibly a decade or two earlier. This is not the place to discuss this important date in detail; but we should perhaps note, as bearing on the chronological limits for a Lydian sea-power, that the Herodotean date for the establishment of the Heracleids in Lydia (505 years before Gyges) works out, when calculated from the Herodotean date for the accession of Gyges (712 B.C.) so as to fall in the year 1217 B.C. Herodotus therefore clearly regarded the coming of the Heracleids in Lydia as a crisis not earlier than the Trojan War, and apparently, on his own chronology, nearly a generation later.

Now it is not likely that a Lydian sea-power would survive a crisis of this kind, involving a change of masters, without grave peril; and we are probably justified in regarding the date 1217 as one which must fall quite outside the limits of this sea-power, either above or below. Herodotus' sketch of the Tyrrhenian emigration suggests, as we have seen, that he regards the coming of the Heracleids to Lydia as a subsequent event, and the Lydo-Tyrrhenian emigration as pre-Trojan; and we are left therefore without any fifth-century evidence for such a theory of Lydian sea-power as our list suggests except the phrase of Thucydides already quoted, which points somewhat in the direction of a date not long before 1030.

# § 24.—The Pre-Lydian Sea-power, 1184-1056 B.C.

Even the Eusebian dates (1168 and 1174) do not carry up the Lydian sea-power to the Eusebian date for the Fall of Troy, in 1184; and in pro-

See references in Stark, Goon, p. 43, n.\*.
13 Bochart, commenting on this passage (Phalog (ed. 1651), p. 98) notes that the Lydians acquired maris importum Gretonathus areplans, but gives no authority for the statement beyond a reference to the Eusebian Chronicon.

In his version of the Eusebian Comon, however, under the year of Abraham 1341, he must Post Caras more obtineerant Light, which, if it

was a gaunine variant for Leabit would look like a reministence of the top of our List in the un-discriptated form which I propose to restore. But here too Bochart gives no suthority; and the contemporary confusion of the Scriptural Lubim and Ludiw makes it only too likely to have been a recent emembation or a blunder. Compare for example Bochart's own index, s.s.

portion as we bring down the Lydian dates, this histus expands. We have seen, however, already in § 13, that Greek tradition at least as far back as the fifth contury, assigned a Carion, not a Lydian sea-power, to the period which immediately succeeds the Trojan War; and we have stated there the case for inferring that the List, in the form in which it has some down is imperfect at the top, and should be completed by prefixing this Carian sea-power in \*place O.\*

### § 25.—Conclusion.

All these earlier 'sea-powers,' however, add very little either to our understanding of the List, or to our knowledge of the period of history to which they must be referred. The essential point is the support which they give to the general view of these centuries as a time of violent aggression on the part of new peoples in the North-Eastern half of the Aegean, from Thrace to Caria; and to the interpretation which they permit, first of the sea-rable, in the Egyptian record, as an earlier phase of the same movement, and second, of Ascalon and the other Phillistine settlements in South Syria, as one of its more permanent results.

My main object, however, is gained, if I have established the conclusion, first, that the lower part of the Thalassocracy List, as we have it now, corresponds in general,—and never positively conflicts—with the data of our only large fifth-century authority for early Greece, Herodotus: second, that its data as to the sequence of Cyprus, Phoenicia, and Egypt may be taken as literally exact; third, that the aliasion to the Carians in Diodorna v. 84 supplies the clue to the original heading of the List, and also to the corrupt numerals which intervene between Phoenicia and Lacedaemon; and fourth, that, as the upshot of the whole enquiry, the Thalassocracy List is a mutilated but genuine document of approximately Periclean date, and embodies data which can be shown to be historically accurate for back into the latter half of the eighth century s.c.

JOHN L MYRES.

#### THE ORIGIN OF THE TYRANNIS.

#### Introduction.

It is a commonplace that the age of the early tyrants was an age of extraordinary commercial development. The invention of coinage, the most important invention in the history of commerce, dates from that age. In what personal relationship did the tyrants stand to this commercial development! They are often assumed to have been merely one of its passive products.1 Is it not possible that the founder of the tyranny was the man who turned to greatest advantage for political purposes the unique commercial conditions of the age in which he lived ! Thucydides ? connects the rise of tyrannies with money making. Does not the saying verifuer arise. which dates from this time, suggest that the tyrants were the leading members of this new class of nouvenux riches, and that they owed their political supremacy to their previous commercial predominance? The indications are of course exceedingly slight. Only in two cases, those of Sames and Athens, where the tyranny arose unusually late, is there any solid material for our investigation. It will be best to consider in detail these two cases only, merely indicating in the barest outline how the seventh century legends and traditions may be severally brought into immediate connexion with the commercial theory.

#### Samos.

The Samines had from early times been great sailors and shipbuilders, their ships being engaged mainly in the carrying trade. From early times too they had enjoyed a great reputation as workers in metal, especially the fine metals, and they were no less famous for their woollen manufactures.

i For the generally received view concerning the general of the tyraumis see Beloch, G.O. i. 312, 310; Plans, Die Tyraumis, i. 120, 121; Guirand, La moin-d'autre to funtrielle dans L'american Green, 22; Radat, La Lydle, ch. iv. 5 i. 12

High H. 178; Hi. 47, 48, 50; v. 50; Eb. Mag. Banodyper; H. Houles Telxes; Athen, vi. 267 a; Plut. De Mal. Hdt. 22; U. Ge. Rv.

<sup>\*</sup> Thun | 18 : Pliny vil ch. 57.

<sup>&</sup>quot; Hdt. iv. 152.

<sup>\*</sup> Collignon, La semptore greeque, I. p. 151. The Samian veyage to Tarshish (626 n.c., Macan, Hdt. 8, 5, 6, 1. p. 196) gives the intest date for the beginning of this industry; April Plorid. ii. 15.

<sup>7</sup> Timeer, xv. 725.

The island was not, however, exclusively commercial. There was a powerful landed aristocracy called γεωμόροι, who doubtless owned the rich Samian oliveyards. The power of the γεωμόροι explains the late date of the tyranny in Samos.

When at last the tyranny was established by Polycrates, the tyrant is found controlling the commercial activities of his state. All through his reign Polycrates was a great sailor and ship-owner.10 He built the famous wepi λιμένα χώμα, " and was even credited with the invention of a new type of boat, called the Σαμαίνη." The general conception of the Samian tyrant is indeed that he used his ships in naval and piratical operations rather than for any peaceful purpose. Thucydides 12 says of him paurice Ισχύων, άλλας τε των ινήσων ύπηκόους εποιήσατο και 'Ρήνειαν έλων ανέθηκε τώ 'Απόλλωνι τώ Δηλίω. But even the capture of Rheneia, which Thucydides seems to regard as the principal warlike achievement of Polycrates' fleet, was one that may have had most important commercial consequences. By capturing Rheneia Polycrates became practically master of Delos. He celebrated the Delian games.14 Considering the unrivalled situation of Delos, it is not unlikely that the festival was even in the sixth century the sumopicon mpayma 15 that it was in later ages. 10 tyrant's war with Sparta was in all probability a commercial struggle started by Corinth." Systematic piracy again was probably Polycrates' only way of maintaining the unequal struggle with Persia. In any case Polycrates employed his fleet for commercial purposes as well as warlike. He traded with Egypt,18 which was the one Eastern country that was during most of his reign independent of Persia and open therefore to Samian trade. The statement of Clyins the Aristotelian Πολυκράτη του Σαμίου τύραυνου ύπὸ τρυφής τὰ παυταχόθευ συνάγειν 19 shows that Polycrates had a personal interest in the transport trade of the people who peytora δή Ελλήνων έκ φορτίων έκερδησαν μετά γε Σώστρατον Λίγινήτην.20 There is unfortunately nothing to show that he employed his own vessels in φορτηγία.

<sup>&</sup>quot; Pint. Q. Gr. 57,

Apul. Florid, II. 15; Aesch. Pres. 883.

Thuc. i. 13: Hdt. Hi. 39; cf. also Euseb. Chron. Armonian version, mars obtinuerung Samil, just after the notice of Polycrates becoming tyrant. Latin version Discarchine Samil condiderunt, just after the notice of Polycrates' accession.

<sup>1)</sup> Hdt. lit. 60.

Hesych, Immarce spores; Phot. Immire; Plat. Periode 22vi.; Alben, sii, 540 s.

I L 13.

<sup>&</sup>lt;sup>14</sup> Phot. and Suid., Πόδια καὶ Δάλια φασὶ Πελυκράτη τὰν Σάμων τύρωντος, Πόδια καὶ Δήλια τοίοσωντα δια ἐν Δάλιρ τέμμαι κὶν θεοῦ χρησών μένου κ.τ.λ. τὰν δὲ Ποδίαν ἀνελεῖν 'καὶτὰ και

και Πόθια και Δήλια,' Sonkauling δυκούς δτι Ισχατα: μετ' όλιγου του χρόσου αυτόν έποχίσθαι συνίβα.

<sup>14</sup> Str. x. 486.

Is it concervable that the repeated purifications of Delos in the sixth and fifth centuries may not only liave had a religious signification, but may also have meant the repeated restriction of a communical element that was constantly recogniting itself!

Hdt, iii. 47 and 48, where observe the causes to which Herodotus attributes the war.

<sup>&</sup>quot; Cf. Hit. ili, 39 with Diod. i. 95 and 98.

<sup>10</sup> Ath. 540 €

<sup>#</sup> Hat. iv. 152.

It is difficult again with the evidence at our disposal completely to identify the tyrant with Samian industry. There is no direct evidence that Polycrates was engaged in the metal industry during his reign, but he seems to have patronised and developed the Samian manufacture of woollen goods. Among the things which Athenaeus (540 c, quoting Clytus, cf. supra) declares that Polycrates when tyrant introduced into Samos are ἐκ Μιλήτου πρόβατα.

Polycrates the tyrant has therefore been shown to have taken some part in the commercial and industrial activities of the city that he ruled. There is strong evidence that he was engaged in the leading branches of Samian industry before he became tyrant, and that his political power was the direct result of these activities. Athenaeus, in the passage above quoted, still speaking of Polycrates, says πρὰ δὲ τοῦ τυραννῆσαι κατασκευασάμενος στρωμνὰς πολυτελεῖς καὶ ποτήρια ἐπέτρεπε χρῆσθαι τοῖς ἡ γάμον ἡ μείζονας ὑποδοχὰς ποιουμένοις. It could scarcely be more definitely stated that Polycrates owed his throne to his wealth in στρωμναί and ποτήρια. The στρωμναί are surely the manufactured article for which he introduced the Milesian and Attic πρὸβατα. The word is apparently technical. Theoritus uses another form of it (ἐστρωται) in the passage where he refers to the famous wools of Miletus and Samos.<sup>28</sup>

Polycrates, must of course be chosen (see Frazer, Paus. iv. p. 237).

20 Road, 549.0 (from Alexis) rphBara & Milhfrey sairfür Arrasür. Cf. also Hdz. iv. 164. Polyerates' support of Arcesilans, the banished tyrant of Cyrene, in suborphpes Außün (Hdz. iv. 155, af. the oracle in iv. 150 where reference is made to Cyreneum florces).

One reported act of Polycrates seems quite out of keeping with his character us a great merchant. He is said to have debased the coinage (Hdr. iii. 56). But Herodotus mentions this report only to reject it as ματαιότερου. In any same it was only a desperate expedient for getting rid of an invader.

24 It seems probable that Polycrates' brother and partner at first in the tyrainy was also originally a merchant or manufactures of woollen goods. At any rate after his banishment we find Darine wanting to buy a xxerir from him. According to Herodotus (iii. 189) it was the one that Syloson was at the moment wearing. The incident took place in Egypt. Syloson was one of the Greeks who had followed Cambyss there. Some of these had come кат биторіну, вини отротеномичесь, запин на mere sightween. Sylosom, who bysquife to vi Minds at the moment of Darius' request, replied eyè ratras riches per colleges gonpares Millers 3) SAA-t. The incident suggests that Sylomn was in Memphis our Zurophe as a merchant in

Il Note however that he was the pairon of Theodorns, who was famous not only as a jeweller but also as a maker of metal cases (Hdt. L 51, Ath. zii, 514f). It will be shown Immediately that Polycrates owed his throne to the sarageson of cornom. The cornom were almost certainly of metal. surspin sepansa are only once mentioned in the passages quoted by Liddell and Scott (Ath. (01a), whereas there are numerous passages in which worther are specifically stated to be of metal (xdAcca Hift, it. 37; doyuod, xonod C.J. 188 7, 10, 27 at allbid. Hdt, iii. 148). The fact of their being lent for uel Coras brobexas is most decisive of all. It may well be the case therefore that Theodorna was something more to Polycrates than merely his mown jeweller and allermanith. Some ancient authorities held that Theodorus flourished 150 years before Polycrates, Plin-N.H gave, 45 (152). Theodorne is always associated with Rhoems, and the two names may have been borne in alternate generations by one family of artists. This would not require the Rhoovi to have fourished longer in Samos than the Wedgwoods have in Staffordshire. Whather or no this explanation holds, the divergence in dates points to the industry having flourished for a long time in the uland If our date for Theodorus beinvisited on that of Herodettes (i. 51), which makes the artist the elder contemporary of

Polycrates probably had a connexion, direct or indirect, with Samian shipping before his accession, for the Samian silversmiths got their silver from Spain.<sup>23</sup> There is however no evidence that Polycrates procured his silver

in his own ships.

The two references in Athenaeus, the one to Polycrates' importations as tyrant, the other to his bribes πρὸ τοῦ τυραννῆσαι, though from the same passage, are not from the same source. The first is explicitly from Κλύτος ὁ Αριστοτελικός. The second is presumably from Alexis, who has been definitely quoted as the authority for the previous sentence. Even if Athenaeus is no longer quoting Alexis, there is not the least reason for thinking that he is quoting Clytus again.

In his domestic policy Polycrates won great fame as the promoter of great public works. The sums that he spent and the number of hands that he employed on the εργα Πολυκράτεια must have been very large. He maintained his power by means of mercenaries, native, it should be noticed, as well as foreign. These mercenaries were undoubtedly a development of the πευτεκαίδεκα ὑπλίται with which he had seized supreme

power.

It is natural to ask at this point how far the labour employed by seventh, and sixth century capitalists was free labour. Free labour must of course have been employed to a different extent in different occupations, and the question must be decided in detail for the different industries with which the tyrant will be found connected. In Samos, after the fall of the tyranny, a large number of slaves purchased the citizenship. This might seem a reason for assuming that Polycrates had relied on highly trained sarvile labour, which the city had not known how to deal with after the fall of the tyranny. There is however a simpler explanation. Syloson, when restored by Persia, had almost annihilated the free population. As regards shipping in particular the evidence points to the general use of free labour. Thucy-dides a states that the έρέται of the Corinthian fleet of 433 B.C., when slaves were much easier to procure than in the sixth century, were nevertheless free men working for pay. Polycrates τεχνίται were free men engaged ἐπὶ μεσθοῖς μεγίστοις.

Speaking generally, free labour was much more employed in χειροτεχνία in the seventh and sixth than in the succeeding centuries.<sup>24</sup> Büchsenschutz<sup>34</sup> in a most instructive passage points out that in early times the τέχναι were

x\u00e4ari8es. "The unromantic commercial aspect of the transaction between Syloson and Darius, which is already observed in Heroslotus' account, has quite [disappeared in that of Strake (xiv, 638), who makes no mention of Darius' offer to purchase.

<sup>19</sup> Hdt. iv. 152.

<sup>\*</sup> Ar. Pol. viii. 11, p. 1818 b : Athan. 540 p.

<sup>#</sup> Hill, iii. 39 and 45,

<sup>77</sup> Hdt HL 190,

Buides, Zanley & Shuor.

Strabe, xiv. 638 farr: Zeltererrer churxepin; Phot, and Suid. for, cit. orders rue telteremeleur.

II L 81 met@ neldares.

Ath, 540 p ; cf. Hdt. iii. 181

Hat it 167 μεμαδήκασι δ' δε τούτο (contempt of χειροτέχεια) σάντει οι Ελληνει.

<sup>34</sup> Resilt and Erwert, S. 821.

in the hands of freemen, but each man was his own master, there being no factories or division of labour. In classical times there was considerable division of labour, and there were businesses employing a large number of hands, but citizens took small part in them. The age of the tyrants was therefore the age in Greck history when apart from all details of evidence there is the greatest a priori possibility of an individual having secured the political power which falls naturally to the employer of organised free labour on a large scale. The employment of servile labour in commercial enterprises was the result, not the cause, of the commercial expansion and development of the seventh and sixth centuries.

#### Athens.

The chief early industry of Athens was pottery; \* the large finds of Dipylon ware show that from an early time Attic pottery had a character of its own.20 But Athens was not exclusively commercial like Corinth and Aegina, Her large territory made her, like Samos, partly agricultural. To this fact may be due her failure " to compete commercially with Aegina and Corinth in the seventh century. Hence too, as in Samos, the late rise of the tyranny. There was of course the attempt of Cylon, but Cylon failed because, though wealthy (δλυμπιορίκης) and influential (δυρατός), he could not possibly, in the Athens of his day, be the leader of any dominant organised commercial activity. He was merely a progressive member of the aristocracy (τών πάλαι εὐγενής) connected with the great band of merchant princes only by marriage " The attempt and its result are both what might have been expected from the position of Athens at the time. Athens never became the ideal home for a tyranny. Soon after Cylon's attempt she did indeed begin to supplant Corinth in the pottery trade, \*2 and the influence of the rich city merchants and exporters must have greatly increased, but Solon's measures for encouraging the growth of olives and the exportation of olive-oil belong also to this period," and the importance of the severes who owned the oliveyards must have increased almost equally. No merchant therefore attempted to secure all the labour of the town and seize the tyranny. The country aristocracy employed labour too. Tyranny was almost impossible.44 But

Mes. Op. 200 fpyor olibie breiber und Homer, jumine; et. Plut. Sol. unii, apde rüs rigent fronde role molivas.

<sup>&</sup>quot;Demosth, car' 'Accident, p. 816; Lysian, wil. 19; Xen. & Fest. 8, 14 (Nicias' mining works).

If At. Pol. iv. 9, 1328, obre Baravers Bios obr arosaiss bi (he rade nolitrar.

Pliny, vii. 57 (Delphin. p. 1425), Figlinas Cororbus innenit Atheniensis.

Perrot, vii. p. 166.

<sup>\*\*</sup> Hit. v. 82-88.

al Thine, L 126.

<sup>&</sup>quot; R.M. Vess, rol. ii. Introduction p. 2.

r Plut Sol 24.

<sup>&</sup>quot;Another proof that Athens was at this time too backward commercially to have been overcome by the wealth of a would-be despot and to have 'stablished a tyrant, yielding to gain' (Theog.) is that the first Athenian colony was not founded till between 560 and 555, during the first reign of Palaistratus, Bosolt, L. 2, 516; Ame. 3.

though the wealth and power of the land-owning aristocracy prevented any Athenian merchant from making himself tyrant, the commercial development of Athens must have made it daily more difficult for the Athenian aristocracy to exclude the rich merchants from political power. Hence the leading man at Athens at this time was not a mere millionaire, as in Corinth and the other more exclusively trading states. Solon had indeed some experience of trade, but he was essentially a politician with a gift for finance, not a financier with political ambitions. He became not a tyrant but a lawgiver.

Solon tried to provide for the difficulties which he saw resulting from the existence of two evenly-matched parties, the landowners of the plain and the traders of the shore. The tyranny arose from the formation of a new interest, that of the Auxpror, by Paisistratus.40 Of the means by which Peisistratus gained the throne less is known than is often mangined. The ruse by which he secured his club-bearers and the Acropolis is a detail, Peisistratus was careful to observe the Solonian constitution, especially before his third restoration. It is therefore not to be expected that the means that he took originally to secure his power would have been patent to everybody. But after his second restoration ha threw off the mask more. έρρίζωσε την τυραννίδα έπικούροισί τε πολλοίσι και γρημάτων συνόδοισι. τών μεν αυτόθεν, τών δε από Στρυμόνος ποταμού συνιόντων. Τ So Aristotle. παρήλθεν είς τούς περί Πάγγαιον τόπους, όθεν γρηματισάμενος καί στρατιώτας μισθωσάμενος, έλθων είς Έρετρίαν ένδεκάτω πάλιν έτει το πρώτου άνασώσασθαι βία την άρχην έπεχείρει...κατείχει ήδη την τυραννίδα Beβalws. That is to say, Peisistratus used money gained in business (χρημα. τισμός) to compass his second restoration. The question arises did Peisistratus use similar means, only less openly, to secure his original apyn? in other words, was Peisistratus a merchant and financier before he became tyrant? What evidence there is leads to the conclusion that he was.

Peisistratus became tyrant originally as leader of the Διάκριοι.<sup>10</sup> Now M. Guira at in his interesting but sober account of La main-d'auvre dans l'ancienne Grèce (pp. 30, 31), sees from the words of Herodotus χρημάτων τῶν μέν αὐτόθεν κ.τ.λ. that Peisistratus worked the mines at Laureium. Can the Διάκριοι be the mining population of Attica, almost exclusively in the employment of the great mine owner Peisistratus, who carried on operations in Thrace as well as Attica, and was in close commercial connexion with the famous mining industries of Euboca? <sup>100</sup>

\*\* Plat. Sol. 2

fr. Especies (idea; Strabe, x: 447 § 9 and name Chalcia. Hesynhius says that there were disagned in Euleum as well as in Attica. Assayou is a literal translation of Bergleutsu, the German for miners. The mining population of South Wales in always spaken of in Cardiff as the people up (in) the hills.

Ηδι: Ι. ΚΘ στασιαζόντων κῶν Παράλων και τῶν ἐκ τοῦ Πεδίου, ήγειρε τρίτην στάσιν.

F Hdr. i. 64.

<sup>\*\*</sup> Rosp. Ath 15 of Pelaistratus' sound bantalment.

<sup>41</sup> Ar. Etays. Ath. 18, 14,

<sup>&</sup>quot; Cf. Alenens fr. Xaxadixal graffic; Assch.

There are two arguments against this conjecture.

(1) The Διάκριοι were a political faction, i.e. citizens. Could citizens work in mines?

(2) The Διακρία was a district. The orthodox view places this district

away from the mines.

- (1) In classical times the mines were worked almost entirely by slaves.<sup>51</sup> Only very occasionally poor citizens worked their own allotments.<sup>52</sup> There is not a single instance of a citizen working in a mine for wages.<sup>53</sup> This does not however prove that citizens did not work for wages in the mines in Peisistratus' time, when, as has been pointed out in dealing with Samos, the conditions of labour were unlike anything seen in Greek history before or after. In fact the words of Solon <sup>53</sup> show that it was quite usual for citizens to work in mines with their own hands, though whether for pay or on their own account is not stated.<sup>55</sup> Plutarch describes the διάκριοι as θητικός όχλος. From this fact Cauer <sup>56</sup> reasonably conjectures that they were μισθωτοί (Lohnarbeiter).
- (2) It is generally assumed that the triple division of Attic territory into πεδίον, πάραλος, and διακρία is definite and absolute, and that it is for instance out of the question that coast land north of Brauron was ever called maganos, or mountain land south of Brauron Stanola. The evidence for the triple division is in fact of the weakest possible. It consists of a passage in Thucydides " which suggests that the tongue of Attica running out into the Aegean was called par excellence the coast land, and one from Hesychius, which by a clever but not certain emendation is made to tell us that if \( \Delta \arpsi \) are fine from Parnes to Brauron.55 Now it was very natural that the name Mountain should be given to the part of Attica where there were most mountains, and the name coast land to that which had in fact a larger proportion of coast to Hinterland than any other portion of Attica. But in regard to the evidence of Thucydides, 40 we cannot assume that the Peloponnesians ravaged the whole of the apex of the triangle. They may well have marched down one coast and up the other. In fact this is just what Thucydides in the very next sentence says they did, και πρώτον μέν έτεμον ταύτην ή πρός Πελοπόννησον όρα, έπειτα δε την προς Ευβοιάν τε και "Ανδρον τετραμμένην. In regard again to Hesychius' evidence, it would only be valid for the purpose of the argument if his definitions were mutually exclusive. As a matter of fact he never mentions το πεδίου at all, and describes ή παραλία as ή Αττική, ένθεν και ή ναῦς παραλος. Can it be claimed in view of the fact that Strabo

<sup>#</sup> Hyp. fr. 33 Blass; Xen. do Part. 4, 14 and 15 and passing; Thur. vii. 27.

in Dem. ziii, § 20.

<sup>11</sup> Ardaillon, La Mines de Leurium, p. 91.

<sup>&</sup>quot; Bernk 12 (4), 49, 50.

<sup>\*\*</sup> Pythes of Phrygia is reported to have used citizen labour in his mines a generation after Polycrates (Plut. de Mul. Virt. H. 282).

<sup>#</sup> Partoien in Mogares u. Athan, p. 85.

<sup>&</sup>quot;Thucydides does indeed speak of the

rapaxer yer enversery, which suggests that the word rapaxer is conventional. But by this expression Thucyclides surely only means that this was the Attic word for the Attic count. His own word for the Palopunnesian above in the very next sentent is value of the description.

Διακρία—χώρα ή άπο Πάρνηθος els Βαβολώνος (ellitors car Βραυρώνος).

学任 55...

uses the word πάραλος of all the coast as distinguished from the Hinterland—mentioning η παραλία η κατά Σαλαμίνα and the παραλία from Sunium to Oropus—and that an inscription of about 320 n.c. (I.G. ii. 1059) mentions παραλία as part of the land of the δήμος Πειραιεύς—that the evidence for the conventional view is sufficient!

It is far more probable that mountainous country, wherever it occurred in sufficient bulk to distinguish it in character from that of the sea-faring population, would be included under the name διακρία, and that sailors, even if they did happen to live north of Brauron, sympathised with the views of the 'shoro.' Doubtless it would be difficult in some cases to determine where the line should be drawn, but it is against all reason to include in the seafaring population the miners who inhabited the mountainous Hinterland of the apex of the Attic triangle. It is worth remarking that the mines which Peisistratus worked were not those nearest the sea, but were well inland at Maronea, a place where the ground varies from 170 m, to 370 m, in height (Bursian Gr. Geogr. i. 254). If once it be admitted that the mining population of the γουνός Σουνιακός formed part of the Διάκριοι, it can hardly be disputed that they must have been politically more important than the scattered inhabitants of the Northern Uplands.

When once established Peisistratus took care to control the labour of the city by legislation. There is no mention of his having regulated the coinage, but his son Hippias, who appears to have followed closely in his father's steps declared the coinage out of currency, called in all the coins at a reduced price and then εξέδωκε τὸ αὐτὸ ἀργύριαν. Numismatists are agreed that what Hippias did was to issue not the same coins again, but the same silver recoined with a more refined type. Hippias doubtless made some immediate profits himself from this recall and re-issue of the coinage, but he may well have had the design of improving the reputation abroad of the Athenian mintage. Beloch(i, 329) well insists upon the scute commercial instinct of Peisistratus in getting a footing on the coast of the Hellespont by seizing

for allver caused by the introduction of a silver comage. The poorness of the veins which Poisistratus worked is confirmed by the fact that to root his tyranny firmly he had to start fresh workings in Thrace. For Thracian silver mines see Strabe 2 331 ft. 34 and abre to fligger open typesia and kpywyses fresh alwahas (ct. Map. Ath. 15 sup.) and Helt. v. 17 mar lake Pensias on the Strymon (cf. Helt. i. 64 up.).

il Pint Sol. Il του δε τθε άργίας νόμος εδ Σόλως έθημες άλλα Πεισίστρατος. Cf. Perinnder, No. Dam. Ir. 58 (Bins. I. I. 646 Ann. 2), δεάλυς τολε τολίτας δεόλους ετίσσης και σχολής έγγες, δεί του αὐταίς έγγα εξευρίστως. Her. Pont. Jr. 5, Wilson Die Allkorentheseke Thomassicatric, p. 10.

The Attic persons first appear in history in. 484 s.c. (Hdt. vii. 144; Pint. Zhem. ir; Ar. Resp. 4th. 22), when the perakks to be Mapurela. egales. But this does not show that they had not previously influenced Attic history, They had certainly been worked ages entitler. "La disposition des giscumnts" (at Maronea), says Arduillon (Les Mines de Laurium pp. 182, 133), 'est talle que les plus riches ne sont pas owns qui pouvaient être atteints les premiers.' A technical explanation of the veites follows. 'Il fallut donc des elècles de recharche et d'efforte [Cf. Xem. de Vest. lv. 2, observ obsa sesparas Adver and notion polices втехноров (та арубриа)] pour en soupconner l'existence et en atteindre le nivem" (i.e. of the rich vein 'discovered' in 484). Athens was tempted to work the somewhat poor upper veins in the sixth century by the great demand

<sup>12</sup> Aristot. Occou. II. 4.

Sigeum, His unsuccessful rival Militiades had already established a Tupanvis on the opposite coast. It is important for our purpose to emphasise the fact that the policies of the several tyrant dynasties were from first to last coherent in themselves and analogous to one another. Hippins not only kept his hold on Sigeum to the last and eventually retired thither, but actively developed his father's line of policy by forming a close personal connexion with the tyrant of Lampsacus, si and effecting a reconciliation with the Philaids on the European side of the strait 65. That his reformation of the coimage was intended to further his foreign and colonial commercial policy is made the more probable by extant coins, some found in the Thracian Chersonese with the Hippias Athena type on one side and the Milesian lion on the other,66 others with the same Athena head, and on the reverse the type of Lampsacus. Lermann argues that the Thracian coins must have been struck when the Chersonese was independent of Athens, because when dependent it would not But though this may be true, the use have been allowed to strike coins. of the Athena type points to some close connexion with the mother city. The analogy of the coins of the Corinthian colonies makes this practically certain, and the Lampsacus coins are a parallel still more to the point. Lampsacus could only have used the Hippias Athena consciously as an ally of the Athenian tyrant. It is therefore to be inferred that Hippins' monetary reforms were not a mere isolated speculation, but part of the broad and widely extending commercial policy on which his power was based. In carrying out these schemes Hippias was but following in the path of his father, who had himself laid the foundations of them, and who probably owed his position to the fact that he was enabled, through his large mining interests, to take the lead in the commercial development which Solon had inaugurated with his financial reforms.

It is more than a coincidence that as the Peisistratids secured their åpχή by a mixture of commercial enterprise and political intrigue, so it was by a mixture of political intrigue and commercial enterprise that they were driven out, through the Alemaeonidae undertaking the contract for rebuilding the temple at Delphi.

## The Seventh Century Tyrannies.

Lydia.—Gyges, the first ruler to be called tyrant, so was famous for his wealth. He possessed gold mines, so and was probably the first to coin in Lydia. Can the legend so of the magic gold ring point to a tradition that Gyges possessed gold mines before his accession and owed his throne to

<sup>&</sup>lt;sup>33</sup> Hill. v. 94 sparágus 52 abraŭ (Basslerparas Loyelas), sarĉorges rógarest clius waida ĉworsŭ vôdor. Cf. Perinnier and Corcyra.

<sup>44</sup> Thms. vi. 59.

<sup>62</sup> Hilt. vl. 39.

<sup>\*\*</sup> Cardia and Limnae in the Thracian Chersonne were Milesian colonies (Str. air. 635, vii. 381, fr. 52).

<sup>&</sup>quot; Athenotypen, pp. 20-21.

<sup>\*\*</sup> F.H.G. iii. p. 72 fr. 1; Et. Mag. Theorem. \*\* Archil, Burgh, 19 (2); Str. xiii. 626, xiv.

<sup>&</sup>lt;sup>76</sup> Of. Str. ziii. I. 22 and 28 with Badet, La Lydio, pp. 172-3.

<sup>71</sup> Pt. Rep. H. 358 b.

them! For the financial basis of the power of even the later Mermadae of. Nio Dam. ed. Tauchn, p. 270 (based on Xanthus of Lydia, see Bus. i. 2, 451-2).

Militus—We only know that the tyranny was preceded by a struggle between two parties called Ploutis and Cheiromache. names which sound remarkably like capital and labour. The accession of Histiaeus, the later tyrant, seems to have synchronised with a revival of the commercial prosperity of Miletus. Histiaeus showed great eagerness to secure a commercial settlement in Thrace, which was regarded by his enemies as the proposed basis of a new political power. Δβασιλεῦ, κοῖον τι χρῆμα ἐποίησας, ἀνδρὶ Ἑλληνι δεινώ τε καὶ σεφώ δοῦς...πολιν; ... ἔνα ... ἐστι μέταλλα ἀργύρεα, δμιλός τε πολλός περιοικέει.

Ephesian—Radet is makes out a good case for believing that the Ephesian tyrants shared with the Mermnadae the monopoly of the great trade route that ran through Sardis to Ephesus. It is impossible positively to prove or disprove that the basis of the power of the Ephesian tyrants was commercial, but it appears to have been at any rate financial, cf. Suid. Πυθαγόρας—τῷ δήμω καὶ τῷ πληθύι ἡν τε καὶ ἐδόκει κεχαρισμένος, ᾶμα τὰ μὲν αὐτοὺς ὑπελπίζων ὑποσχέσεσιν, τὰ δὲ ὑποσπείρων αὐτοῦς ὁλίγα κὲρδη. 10

Argos.—It was surely Pheidon's invention of μέτρα for the Peloponnesians rather than his υβρις or impiety that caused him to be regarded as a different kind of ruler from his forefathers, as a τύραννος instead of a βασιλεύς.

Corinth.—Corinth had long been a great emporium, 77 but a great commercial development took place about 700 s.c. in (1) pottery 78 and (2) ship building and trade by sea. 79 The activity of the Cypselids in this new marine commerce is beyond dispute. Wilisch 80 attributes to the Cypselids the development of the Corinthian export trade in pottery. Cypselus was a metic 81 and therefore probably originally a trader. 82

Megara.—Theogenes \$3 secured his power τῶν εὐπόρον τὰ κτήνη ἀποσφάξας. The preservation of this statement becomes more comprehensible if Theogenes' coup was a simple but effective way of securing the monopoly of the famous Megarean woollen industry.

#### Conclusion.

The commercial origin of the tyrant's power seems fairly certain in the case of Samos and very probable in that of Athens. In the case of the

<sup>77</sup> Plat. Q. Gr., 32.

<sup>73</sup> Hdt v. 28

<sup>77</sup> D. v. 28

<sup>23</sup> La Lydie, pp. 134 and 148,

Thongs. \$23 september elean.

<sup>77</sup> Thun I. 13 : Str. vun 378.

<sup>19</sup> Williach, Die Allkorinthrache Phonindustrie, p. 151

<sup>&</sup>quot; Thur. 1, 13, The Examer to mide sure yes

drammyderwe, and the account of Ameimoles' invention in the same chapter.

<sup>66</sup> Op. 160, p. 151

<sup>&</sup>quot; From Gorussa, Pam. v. 18. 7.

<sup>&</sup>lt;sup>85</sup> Can the story of the infant Cypselns being noncoded in a kypsels mean that the future tyrant spent his earlier days is the absurity of a pottery?

<sup>34</sup> Ar. Fol. vill. 1805 A.

Neu. Mem. il. 7, 6; Bus. G.G. i. 1, 471.

seventh century tyrannies it is more conjectural, but the legends that have been preserved about the early careers of Gyges, Pheidon, Cypselus, and Theagenes give some support to the conjecture. Further, the careers of the seventh century tyrants bear such a remarkable resemblance to those of Polygrates and Persistratus, that it is reasonable to infer that the origin of the tyrannies was the same in both centuries, especially as it has been shown that Athens and Sames became predominantly commercial somewhat later than Corintle Megara, and the other cities where tyrants arose in the seventh century. Neither the accumulation of probabilities nor the argument from analogy is quite convincing in itself, but each gives additional weight to the other. If once the commercial origin of the tyrant's power is admitted, the various facts recorded about the tyrants certainly gain in meaning and coherence. The mercenaries, the monetary innovations and reforms, the public works and labour legislation and the foreign alliances which are so repeatedly found associated with the early tyrants and which give the preserved accounts of them such a distinct stamp, become far more significant if the tyrant's power was based on his control of the labour and trade of his city. It is scarcely conceivable under any other theory, that there should not have been at least occasional cases of commercial retrogression or stagnation under the repaire's. The fact that the commercial theory gives the most coherent explanation of the policy of the typical early tyrant is again no proof that the theory is true, but it is a further perfectly sound reason for accepting it on a less amount of direct evidence than would otherwise be required.

But perhaps the best test of the truth of any theory upon the origin of the early tyrannis is the evidence afforded by contemporary literature, especially the political poems of Solou and Theognis. Has the commercial theory the support of this contemporary evidence?

The political aim of Theognis was to prevent a recurrence of tyranny in Megara. What does the poet bid his townsmen beware of ! Not of eloquence, not of violence, not of rashly appointing a νομοθέτης or αlανμνήτης. All his warnings are directed against wealth. The whole town of Megara had become commercial. Birth had lost its prestige, so and wealth acquired unprecedented power. The state of the prestige of the commercial of the commercial

It was the wealth of the would-be tyrant that Solon too feared.88

Solon and Theognis wrote with the examples of Gyges, Pheidon, Orthagoras, Cypselus, and Theogenes before them <sup>10</sup> If they constantly feared that some πλούστος φορτηγός <sup>20</sup> would make himself tyrant, it must surely have

<sup>\*\* 117, 449, 499, 1105, 1164</sup> g.h. (money); 576, 619, 671 f., 691, 856, 1202 (shipping), and note the large number of similes and metaphers in the eligarchic Theognia drawn from money and shipping.

<sup># 670, 318, 523 6, 683.</sup> # 621, 679, 699, 1157.

<sup>\*\* 4. 3</sup> and 2. 5 (Bergk); cf. Theog. 14 for

Is it possible to see in Sqlan 12, 29-32 a reference to the fates of the various tyrant families of the seventh century?

<sup>3</sup> Theog. 679.

been because the tyrants of the seventh century had sprung from the new class of πλούστοι φορτηγοί. If the poems of Solon and Theognis are carefully read through, they will, I think, be found throughout to dwell specially upon the danger of the πλούστος making himself tyrant by means of his πλούστος.

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### THE TOPOGRAPHY OF PELION AND MAGNESIA.

This paper gives the results of a journey of exploration undertaken in April, 1905, in the Magnesian peninsula by Mr. A. W. Van Buren of the American School at Rome and myself. The observations are in many cases incomplete, but every effort has been made to make them as perfect as time and means allowed. I would like to point out to archaeologists who are too often content only with a tour to Larissa, Tempe, the Metéora, and Phersala, that Thessaly is in many respects a terra incognita. That it amply repays exploration and excavation is shewn by the results obtained by Dr. Tsountas and Dr. Stais at Dhimini, Seskio, and Marmariani. It is to be hoped that in future archaeologists will visit Thessaly more frequently and not be content with mere sight-seeing. I myself hope to return this year to study the Ossa district; and it is possible that the British School at Athens will, if circumstances permit, excavate the temple site at Kato Georgi.

In preparing this paper I have received much kind help from Dr. Wilhelm, Dr. Fredrich, Dr. Svoronos, Mr. G. F. Hill, and Mr. Wroth. To these and to Mr. Van Buren I wish to express my hearty thanks. I am also much indebted to two local gentlemen Θεόδωρος Ζηργάνος παια Χαρίλαος Γαιρέφης of Argelaste who accompanied me for two days, to the Demarch of

Neochori, and many others.

# § 1 .- Introduction.

The principal modern authorities who have dealt with the topography and archaeology of the district are :--

Leake, Northern Greece, iv. pp. 368-399, 426-433 [Leake].<sup>3</sup>
Mézières, Mémoire sur le Polion et l'Ossa (Archives des Missions Scientifiques, 1854, pp. 149 segq.) [Mézières],

Bursian, Geographie von Griechenland, i. pp. 96 sqq. [Bursian].

Recum Magnetierum Specimen; Tozer, Highlands of Turkey il.; Ussing Grieckische Reises und Stedies. For an account of the Magnesian Confederation see Darumberg-Seglio, v. pp. 837

He published in the Hasserrakics of April 21st and 22nd (May 8rd and 4th), 1905, a brist account of part of our journey.

<sup>\*</sup> In the square brackets are given the nances by which the works will be cited below. Other works of less imperiance are, Kretechmann.

Georgiades, Θεσσαλία (first edition 1880), second edition, 1894

[Georgiades].

The most important passages in classical authors dealing with the geography of Magnesia are to be found in Scylax and Pliny. Scylax says:-

Έθνος έστι Μαγρήτων παρά θάλατταν και πόλεις αΐδε Ἰωλκός, Μεθώνη, Κορακαί, Σπάλαυθρα, Όλιζών, Ίσαι λιμήν. έξω δὲ τοῦ Κόλπου Παγασητικοῦ Μελίβοια, Ῥιζοῦς, Εὐρυμεναί, Μύραι.



Pliny tells us:- 4

Thessaliae adnexa Magnesia est, cuius gens Libethra, oppida Ioleus, Ormenium, Pyrrha, Methone, Olizon, promunturium Sepias oppida Castana,

Periplus, 65.

Spaiathra, promunturium Acantium, oppida Meliboca, Rhizus, Erymnae, ostium Penii, oppida Homolium, Orthe, Iresiae, Pelinna, Thaumacie, Gyrton, Crannen, Acharne, Dotion, Melite, Phylace, Potniae.

Other important information is given us by Strabo, Ptolemy, and Pomponius Mela. The towns or places which previous writers have assigned to the Magnesian peninsula are Sepias, Aphetae, Olizon, Spalathra, Kopazal, Methone, Nelsia, Demetrias, Ioleus, Orminion, Pagasae, Glaphyrae, Boebe, Myrae. Of all these sites not one is actually identified by epigraphical evidence. The position of Demetrias is certain, since Strabo tells us it was built between Pagasae and Neleia. The site of Pagasae is fixed because Strabo also says it was in his day the port of Pherac. Therefore Pagasae must be identified with the ruined city to the west of the harbour of Volo. On the east of this same harbour in a very strong natural position is another city site: this must be Demetrias. Thus we must assume Neleia to have been to the south of Demetrias. Iolous we know from Strabo was only seven stades from Demetrias; therefore it must be looked for quite close to that city. Scylax in enumerating the towns within the Gulf of Pagasae heads his list with Ioleus, and then mentions four or five more sites. Similarly in his list of those outside the gulf he begins with Meliboea, which we know from Livy 5 to have lain at the foot of Ossa between it and Pelion. Therefore we may follow Georgiades in placing it in the neighbourhood of Thanatu, which identification has been confirmed by epigraphic evidence, 10 Thus it is legitimate to assume that Scylax' list of towns begins with the most northern. In this paper then it is proposed to take the towns in the reverse order from south to north, and to identify them as far as possible with the ancient sites of the peninsula. A brief description of each site is given with additional notes on any features of interest in its neighbourhood.

# § 2.—Sepias it and Aphetae,12

This town was situated on or near a promontory which bore the same name. Hitherto it has been universally assumed that Cape Sepias is the promontory at the heel of Magnesia opposite Skiathos. Our most important anthority for its position is Herodotus. In describing the movements of the Persian fleet before Artemisium, he says three of the Persian scouts advanced to the sunken rock between Skiathos and Magnesia. This rock,

<sup>&</sup>quot; Herodotna, vii. 193.

<sup>\*</sup> Strabe, ix. 406.

<sup>&</sup>quot; Wind, ii. 712; Stephanus, a.n.

<sup>&</sup>quot; wliv, 18,

<sup>&</sup>quot; P. 144.

<sup>&</sup>quot; Aedrior, 1889, p. 93; Instit. at Thomatu. Raymerican Meniespon Medibliocon.

Heredoma, vii. 113, 188, 191; Strabo, vii. 330, ix 448; Pansanias, viii. 27, 14;

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Athensons, i. 80 n.; Piliny, for. cd.; Apolloutius Rhodius, i. 580; Ptoloney, iii, 18, § 18; Popapourius Mala, ii. 3. 580; Georgiades, p. 137; Burnian, p. 100; Menières, p. 219.

<sup>&</sup>lt;sup>10</sup> Harodotini, vii. 193, viii. 8; Strabo, ix. 488; Apollourius Rhostina, i. 591; Stephanus, 4.5.; Leuke, p. 248; Husaian, p. 191; Georgradus, p. 114.

then called Myrmex and now Eleutheri, lies just awash in the channel between the heel of Magnesia and Skinthos, rather nearer the mainland than the island. He then says the whole fleet made one day's voyage from Therma to the coast between Casthanaea and Cape Sepias. Casthanaea is identified with great probability with a site by Keramidi 12 on the northern coast below Pelion. Later in describing the storm he says that some Persian ships were wrecked at Hipnoi at the foot of Pelion (a place identified by Georgiades with the cave-eaten chiffs by Veneto), others at Cape Sepias, others near Meliboen and Casthanaec. A glance at the map shews all these places near together except Sepias, if we identify it with the heel of Magnesia. Finally Herodotus in describing the last movement of the fleet before Artemisium, says the Persians rounded the extreme point of Magnesia and sailed straight into the bay leading to Pagasae. There they anchored at a place called Aphetae. said to take its name from the abandonment of Heracles by the Argonauts. Georgiades identifies Aphetae with Aphesos, a little modern village right inside the Gulf of Pagasae. This view is clearly absurd. If the Persians could enter the Gulf of Pagasae they would have passed the Greeks at Artemiaium and have outstanked Leonidas at Thermopylae. Besides it would make nonsense of Herodotus statement that Aphetae and Artemisium were opposite one another. Leake places Aphetae at Trikeri at the mouth of the gulf, a very unsuitable place and open to the same strategic objections. Grundy,24 who seems to accept the orthodox view as to the position of Sepias, says that Aphetae must have been somewhere in the south of Magnesia at the entrance to the Gulf of Pagasae. Now in the south of the Magnesian peninsula there are only two harbours, one at Platania not far round the corner of the peninsula, and another by the Palacokastro identified as Olizon. The latter cannot be Aphetae, since at Aphetae there was no town. The one remaining site is Platania, which is directly opposite Arremisium and is to-day marked as a harbour on the Admiralty chart. Further there is a place near Platania still called 'Acerdores. Platania hay is quite sheltered from the north-east, so that when the second gale arose the Persian fleet would be quite safe. Herodotus words ideiar Enleon es Tor κάλπον τὰν ἐπὶ Παγασέων φέρουτα must not be taken too literally. He may mean the gulf that leads to the Gulf of Pagasae; or may easily have regarded the channel north of Euboca and the Gulf of Pagasae as one. As regards Sepias it will easily be seen that it cannot have been at the heel of Magnesia opposite Skinthos. Otherwise it is hard to understand why the Persians did not put to sea and run round the corner, between Euboea and Magnesia, where they would have been safe from the Hellespontias, obviously a north-easter.12 Also Apollonius Rhodius, although his geography is not very accurate, would hardly say coure be Ennide anon, cairero o' espadin Laiathor, if Sepias was directly opposite Skinthos. Therefore Sepias must be near Casthanaea, and must be identified with the very prominent cape below Pelion, now called Pori.

<sup>\*\*</sup> Georgiades, p. 142.

<sup>&</sup>quot; Giens Persian War, pp. 323 com.

If The Greeks for instance mu from Artonisium towards Chalkes during the storm,

This is much more of a cape than the rounded corner at Kato Georgi opposite Skiathos. Another point in favour of placing Sepias at Pori is that north of Kato Georgi as far at least as Zagora there is no beach at all to accommodate a fleet. The coast is very rocky, and most inhospitable. The transference of Sepias from Kato Georgi to Pori leaves us without a name for the site at the former place.

It also necessitates some consideration of the topography of the eastern side of Ossa against the sea. As I am not qualified to speak of this district from personal experience, I will briefly summarize the possibilities in a table. The places mentioned are arranged from North to South.

| Hellenia<br>Sites. | Georgiades'<br>Identifications, 24 | Soulie Identifications   |
|--------------------|------------------------------------|--------------------------|
| Kokkino Reuma      | Earymenne, 37                      | (Thannakia is            |
| Tarsana.           | Ehizus.                            | Meliboen                 |
| Thanatn.           | Melibosa.                          | Hhimu.                   |
| SkitL              | Thammakle, 18                      | Kurymenae, tr            |
| Keramidi.          | Kasthannes,18                      | /Kastliannen.)18         |
| Venéto.            | Hipmon. 10                         | (Hipnoi,)iii             |
| Pori.              | Myran_                             | (Sepina,) <sup>III</sup> |
| Kato Georgi.       | Semina, III                        | Myrae                    |

The towns given in brackets in the third column are those known of from other sources. Meliboea and Rhizus must have been important towns, since they both struck coins. The proposed identifications are only possible if Scylax' order be really from north to south. We can only know from the authors already quoted that Meliboea and Kasthanaea lay near where it is proposed to place them: definite epigraphical evidence only can settle the points finally.

Near the village of Pori there are, according to Georgiades, at a place called 'Kaλόβι τοῦ παναγιώτου,' Byzantine mingled with Hellenic ruins. The spot is close to the cape, and is therefore from the reasons given above to be identified with Sepias, which we know from Strabo a stood near the cape of the same name. For the site at Kato Georgi the name Myrae has been suggested. Inscriptions give us the name of two other Magnesian towns whose whereabouts is entirely unknown, Ale and Aiole. These might almost equally well be given to this site. Here there are some interesting remains. On the top of a steep, isolated hill, which has been half eaten away by the sea, there are plentiful remains of Byzantine buildings. Amongst the

ir Pp. 136 sepp.

Strales, iv. 143 ('Epourai), Pliny, he. cir., Apollonius Bhod. i. 597; Valerius Pl. H. 14. Coins, Hand, Histories Num. p. 250.

Hind, H. 716; Strahe, ix, 436; Stephanus, e.w.; Pliny, loc. etc.

in Harodatus, los, cit.

<sup>&</sup>quot; Head, op. vil. p. 256; Wroth, Nam. Chron,

<sup>1900</sup> p. P. P. L. Z.

m P. 128.

<sup># |</sup>x. 436.

<sup>&</sup>lt;sup>12</sup> Ath. Mitth. 1882, pp. 69 wegq. = Ditter-burger, Sull. 700; Ath. Mitth. 1890, pp. 283 seqq. No. 27.

<sup>&</sup>lt;sup>36</sup> Ata, Mitta, 1882, pp. 89 s/99, = Dittenlurger, Syll, 700.

rains grow some stunted wild olives, all incline towards the south-west and show the prevalence of north-east winds in this region. I was told that walls without mortar' had fallen in the sea. Careful search down the side of the hill eaten away by the sea revealed below the Byzantine level the existence of walls built of small unworked stones and no mortar. Amongst these walls are fragments of ordinary black glazed ware. Towards the foot of the hill to the west are some big, roughly-worked blocks: these probably are the remains of the wall of the town. Below the hill to the north-west, close to the shore of a little cove where a small stream runs into the sea, is a chapel dedicated to the Virgin. It is principally built of squared blocks of pores. Round it in the ground are long oblong blocks of limestone. To the west of the church there are obvious remains of a Doric temple. Five longish column drums with twenty flutes lie on the ground. Sticking up from the ground are the ends of three more similar drums, two close together and one a little distance away from them. These seem to be the lowest droms of columns still in position on the stylobate. They are of pons, coated with stucco, and measure 55 m. in diameter. Apparently the temple was peripteral. I was told that the statue of a boy was once found here. If we may identify the whole of the mountainous extremity of the Magnesian peninsula as Mount Tisaeum," this temple might be that dedicated to Artemis mentioned by Valerius Flaccus 56

Close to the shore of the cove of Kato Georgi, twenty minutes to south of the temple, some round and square tiles have been found in a kind of cellar under a modern house. Probably in antiquity as now there were a few fishermen's houses here. This small settlement serves as a ferry station for those wishing to go to Skiathos.

At Aphetae (Platania) there are no ruins. I was given a coarse, black, glazed kylix that was recently found in a tomb a little above the harbour. This is now in the Volo Museniu.

# § 3.—Oltson."

This is the most southern according to our interpretation of Scylax of the towns within the gulf. It is placed by all authorities at the Palaeckastro which stands on the narrow isthmus uniting the peninsula of Trikeri to the mainisand. This is on a steep, isolated hill completely guarding the passage of the isthmus, and the two harbours to the north and the south. On the northwest of the hill are traces of the lower courses of a wall built of big blocks in irregular courses. Local information says that the wall went all round the hill, but was recently destroyed to form cultivation terraces. On the southwest are some Byzantine runs. Towards the same side is a deep natural figure in the rock said to communicate with the sea to the south; the

<sup>&</sup>quot; Polylim, z. 42 Livy, avviii. &

<sup>&</sup>quot; Heat, ii. 717; Picture), Thomast S.; Georgiades, p. 110.

Stephanus, a.a.; Strales, ix. 436; Leake, p. 284; Mezieres, p. 163; Barnian, p. 161;

natives say that in winter it smokes like a steamer. Near here I was shown a statue base 41 m, and 25 m, wide, with dowel holes in its top; it bears this inscription:—

#### TONHPAKAH MENANAPOC

Below the stone is broken; it probably ended with the one word ANESHKE. It is not earlier than the first century a.b. On a bluff to the south of the Palaeckastro and near the shore are two rock-cut graves. On a low hill to the south-east are remains of a small building of local marble. No plan can be made out; but it was perhaps a small prostyle temple. I was told there were some Corinthian capitals here some years ago.

#### § 4 .- Tisanum, and Acantium.

I have above conjectured that perhaps the mountain at the end of the main peninsula above Platania and Kato Georgi is Tisacum. Our principal authorities for its position are Polybius and Livy. They state that Philip V in the campaign of 207 B.C. against Sulpicius and Attalus I. established a signal station in connexion with others in Phocis, Euboca, and Paparethus, to signal to Demetrias the news of any movement of the enemy who had just been ravaging Paparethus and soon attacked Oreus. The two highest points in the south of the peninsula are a peak in the isthmus just west of Olizon, and another somewhat lower a little north of Platania. Both are equally favourably placed to signal to Phocis, Euboca, and Demetrias. The latter however better commands the open sea towards Peparethus. This peak then is perhaps Tisacum. The Acantium promunturium we must then identify with the peninsula of Trikeri and in its north-eastern angle place the Tσαι λιμήν of Seylax.

# § 5.—Spalathra.20

The next site north of Olizon is a hill called Chortokastro, just at Chortos the shala of the prosperous village of Argelaste, which lies in an upland plain about an hour from the shore. The kastro is a steep, isolated hill standing close by the shore. Nothing is now visible, as the site is cultivated, except fragments of ordinary course pottery. The natives however say that here have been found a mosaic floor, tiles, marble slabs, statues, and other things. Tombs are found in the neighbourhood. The Demarch showed me a bronze strainer-like ladle, and an iron knife from a tomb, and also two vases. One of these is of red-figure style and shows

Polybins, z. 42 = Livy, zzvini. 5; Apolionius Rhodins, L 568; Valarum Flaccus, Jos. etc.; Leaks, p. 397; Bursian, p. 100; Gausgiades, p. 22.

<sup>-</sup> Phuy, toe art. ; Prolemy, iii. 15, \$ 16;

Leaks, p. 897; Bursian, p. 101; Georgiades, p. 22.

Stephania, s.w.; Pliny, for. ed.; Leske, p. 884; Mexières, p. 169; Bursian, p. 101; Georgiades, p. 113.

a Satyr and a nymph; the other is of ordinary black-glazed ware, but both are of good style. At Chortos I was shewn this inscription;

#### ΦΙΛΟΚΡΑΤΗΣ ΘΡΑΣΩΝΙΔΟΥΘΑΣΙΟΣ

on a plain gable-topped stele: the lettering is good and points to the third century B.C. The name Thrusonides is a genuine Thasian name. 31

At Argelaste I was shewn two inscriptions. Each side of the door of the church of the Ayror Arapyvoor.

|       | Rosette. | Rosette_ |
|-------|----------|----------|
| Right | ΗΓΕΣ     | Left ATA |
|       | MEN      | OY       |
|       | COIP     | EKUE     |
|       | EΩΦP     | EKOY     |
|       | AYXA     |          |

HFES[ISTP]ATA
MEN[INT]OY

EOPP[ONI]EKOE

EOPP[ONI]EKOY

! AYXA[IOE]!

The stele seems to have been used twice; in the first two rows the lettering is good; in the others bad.

In the same church, stell with anthemion top.

#### **SIMIAS**

It is broken below this name and shews traces of other letters.

In the Museum at Volo (No. 82) with several other a inscriptions—chiefly funereal—from this neighbourhood is the remarkable stelle here illustrated (Fig. 1). It shows a relief field enclosed by two square pilasters supporting a plain architrave ornamented at its ends and in the centre with acroteria. Placed obliquely in the field from right to left and flying downwards is a winged thunderbolt. On the architrave is inscribed:

## ΕΡΓΙΑΣΔΙΟΝΥΣΙΟΥΥΠΕΡΤΟΥΑΔΕΛ ΦΟΥΕΥΑΝΔΡΟΥΟΝΤΟΣΑΙΧΜΑΛΩΤ(ΟΥ)

and below

.... [EY] EAMENOS

Before ev Faueros we should supply the name of the god to whom this relief

 <sup>21</sup> Att. Math. 1903, p. 438, J. 22
 22 p. 84, Nos. 81, 84, 198 (Dedication to Herwitz E.g. Nos. 105, 107 Mos. Aut. Lies. viii. cles), and two aupublished inscriptions.

was dedicated, probably  $T\Omega(\Delta i)$  or  $\Delta iiAKPAI\Omega i$ , if we are to assume that the thunderbolt is the symbol of the god invoked on behalf of the prisoner.

Near Argelaste, but to the east of the village, two celts have been found which are now in the Volo Museum, <sup>18</sup> They are made of oval-shaped stones, of which one end has been ground down to form a blade. They are about 10 m, long.

Georgiades places Spalathra on a hill called Mpaou, a little to the north of Chortes. On this hill there is a monastery of St. Nicholas and the ruins



Fin. L.

of a Byzantine church in which are some squared blocks, and Georgiades says others have been found near by as well as tombs. But the hill of Mpaou though higher than that of Chortos is not of sufficient natural strength to be a city site, since it is united to the main range by a narrow neck. At all events if Spalathra was not at Chortos or at Mpaou, it must have been, to judge from the quantity of Hellenic remains, somewhere in this neighbourhood. Leake places at Chortos the hypothetical city of Magnesia, whose very existence is extremely doubtful.<sup>34</sup>

district with Thessaly, Ionia, etc. Pausanias obviously means Demetries. Perhaps Demetries us the capital of the autonomous Magnetes ned its name changed to Magnesia. Demoutherns charry sways ansider Magnesia.

F No. 125.

Demusthenes, Olimth, i. 12, 15, ii. 20;
 Philip. ii. 71; Scholiast on Apollonius Rhodius.
 L. 580; Pausanias, vii. 7, 6; Demosthenes.
 Demosthenes.
 Neovam, 1382) speaks of Magnesia as a

# § 6.—Leiphokastro.

About an hour and a half north of Chortes and an hour west of Argelaste is Leiphokastro. Here is a mill by the sea at the end of a small ravine, and on a low hill by the shore and on a narrow peninsula are many Byzantine ruins. There are remains of the following churches, Panagia, Hagia Euphemia, Hagios Panteleimon, Hagios Nikolaos, and Hagioi Apostolo. Amongst these one can see a few Byzantine capitals of poor style and two columns of verde antico. There are no traces of walls nor of any Hellenic remains.

It seems however to have been an important Byzantine site. The natives informed us that there are traces of an ancient road running eastward from Leiphokastro, which lies on a narrow strip of flattish land between the hills and the sea, amongst the hills towards Neochori. This probably led to a place called Lai near Neochori, close to the eastern const of the peninsula. Here there was a large settlement, also purely Byzantine. There are four churches all in ruins, Hagies Georgies, Hagies Ioannes, Hagios Elias, and Panagia. The latter, of which only the foundations are left, has recently been excavated; why I do not know. The plan is somewhat interesting 30 The church, which is seventeen metres long, has a nave and two aisles. There is only one apse at the end of the nave. There is a narthex with three doors leading into the nave and aisles, and into the narthex itself there is only one door. At the east end of the southern aisle is a grave; and at the west end of the northern one a cemented basin. In plan and size this church is much more pretentious than the others. All are badly built of brick, small stones, and mortar. About an hour to the east is a small harbour on the coast, and a little Kastro Hagios Demetries. We seem to have here a settlement of the later imperial period with a harbour on each coast. The earliest coins from the site I saw were of Marcus Aurelius. Third-century coins seem common here, and also Byzantine coins, the latter unfortunately very illegible. The most distinguishable of them were the usual types attributed to John Zimisces, and some of Justinian. A little further north of Hagios Demetrios there is another Byzantine Palaeokastro: this however I did not visit.

### § 7.—Kopasala

Georgiades places this town at Leiphokastro, which is not very probable, since as we have seen there are no Hellenic remains there. Mézières puts it

as a district. The exhaliast on Apollonius has no authority; he is only a communistor; cf. Kratachmann, op. cd. p. 15; Monines, p. 173; Bursian, p. 102.

<sup>&</sup>quot; Meniores, p. 177; Georgiades, p. 112.

<sup>20</sup> For the plan compare the Basilica type

shown by the fourth church at Big hir killsse, Straygorabi, Khinanion, p. 58, Fig. 48.

Scylar, be. etc.; Stephanta, s.n. Koparu; Moneres, p. 178; Bursian, p. 191; Georgiades, p. 114.

at a place same distance north of Leiphokastro called Κορακόπυργος or Παλαιόπυργος. Here where a ruined square tower stands on a low isolated hill close to the sea, there are no Hellenic remains, save late graves. This hill is on the south side of a wide, fertile, well-watered valley. On the north of the valley at the foot of the hill is an isolated hill called Petralona. Near here were found the two fragments of the famous Apollo Koropaios inscription. Probably in Scylar we should read Κορόπη instead of Κορακαί. At Petralona there is nothing to be seen; the hill is terraced, and though hig stones lie all about there are no traces of walls. However, since it is hardly likely that the big slabs of the inscription could have been taken far, we must assume Κοροπη to have lain here.

### § 8. -Methone.10

This town was placed by Mézières at Lechonia. This as Bursian points out is unsuitable, since the Lechonia site is necessary for Neleia, which was also Leake's view. Georgiades follows Bursian's view. Close to Kahmera the shaha of Milies (Mykeai's) some remains of antiquity have been found, in particular two busts which were stolen and sold in Smyrna in 1827. An inscription of the Magnesian confederacy was also found here. Lack of time prevented me from visiting the site, but I was assured by natives that nothing is to be seen there. Near Milies itself several inscriptions have been found, especially of the archaic Thessalian type.

## § 9.—Neleia.

This town, as shewn above, must have lain to the south of Demetrias. Close to the modern village Lechana, which lies at the south end of the fertile plain of Agria, is a hill called Ne Service. Round this hill on the south and west sides runs a Pelasgian wall. This wall is built of rough blocks of various sizes with no regard to courses or jointing (Fig. 2). Some of the blocks are very big; in places the wall is as much as two metres high; it now serves as a terrace wall. On top of the hill ordinary black-glazed potsherds are visible. On a steep hill the east side of a ravine from Ne Secrice is a ruined Byzantine castle. At Neleia we must place the sent of the worship of Aphrodite Neleia which we know of from an inscription. To judge by

Ath. Mitth. 1882, p. 69 supp. = Dittmbenger. Sull. 780.

<sup>\*\*</sup> Iliad, ii 716; Stephanus, c.s.; Strabe, iz. 436; Pliny, &c. at.; Seylax, be. cd.; Seilaus, (ed. Monumen (1895), c. s. # 7; Mézières, pp. 184, 187; Bursian, p. 192; Georgiades, p. 116.

<sup>\*\*</sup> Strabo, iz. 638; Leake, p. 379; Membry, p. 188; Bursian, p. 102; Georgiades, p. 118.

Ath. Mitth. 1890, p. 303, No. 12. Perbaps we should read to τφ lopφ ττς 'Aφροδίτης NηΑκίας in the Kleiter insuription (Ath. Mitth. 1881, p. 304 n. 1-25). Probably the cois with the inscription 'Αφροδότη ΜηΑκία published by Imboof-Blumer and attributed to Magnesia ad Macandium should read 'Αφροδίτη NήAsm and belong to the Magnetes (v. Imboof-Blumer, Mous. Greeques, p. 202, 91).

the character of its wall, Neleia was probably one of the older towns of the Magnetes.

#### § 10.—Demetrias, and Inleus.

Fredrich has recently published a full account of Demotrias \*\* with a plan of the site, to which I added a few notes. To this account I have as yet nothing further to add. Iolous \*\* was already even in Strabo's time only a τόπος, and the shore north of Demetrias was called Iolous. Leake identified it with the hill of Episkope which stands close to the village called Vlachomachall, or Allemeria, one of the many small villages at the foot of Pelion on the edge



F10; 2

of the plain of Volo (Fig. 3). This identification has been adopted by Mézières, Bursian, and Georgiades. There seems no reason for rejecting it, even though no remains of antiquity are now visible on the site.\*\* The hill is crowned by a church also called Episkope. In this church are many marble blocks, and a fragment of a large Ionic capital. Leake states however that large squared blocks of stone forming part of a wall once lay near the bottom of the hill. In the walls of the church are many interesting Byzantine reliefs. On the north and east walls are reliefs shewing peacocks

<sup>\*\*</sup> Mth. Mitth. 1906; pp. 221-244, Pl. IX.

\*\* Hind., ii. 712 | Colpuss, ii. 256; Apollodorus, i. 9. 8 II. Pindar, New iv. 88; Herodoins, v. 94; Livy, aliv, 12, 13; Pliny, loc.
ett.; Seylax, loc. ett.; Strabo, ix. 436, 488;
Laske, p. 379; Merices, p. 160; Useing, ep.
ett., p. 97; Bureim, p. 108; Georgiades, pp.
124, 125.

<sup>\*\*</sup> Its distance from Demetries agrees with Strabo's estimate of seven studes. In recent relimiting operations within the Kastro at Volo, the only hill on a level and marring coast, music bronze ege and Mycomean pottery has been found. This site was probably the part of Indees and Epsekops its similal.

and the double eagle, and another of the Archangel Michael inscribed with his name. Over the north door is the inscription :--

ό Δημητριάδος κάλιστε! και κτήτορ της έκκλησίας έτ. [ξΟΜΕ! 10

In the east end is another largish relief. On the right is a bearded figure in a long robe on an elaborate throne in profile to the left. In the centre is the Virgin on face wearing a nimbus: she is clad in a girt chiton with a himation round her shoulders. Christ is on the left crowned with a nimbus containing a cross and clad in a short chiton; he advances to the right.

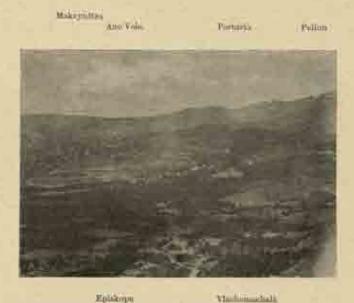


FIG. 3.—VIEW OF N.W. SING OF PERION FROM DEMETHIAS.

The Virgin holds his left wrist with her right hand. Over the figures of Christ and the Virgin is inscribed:—

H MAKPIH MP OY

and between them :-

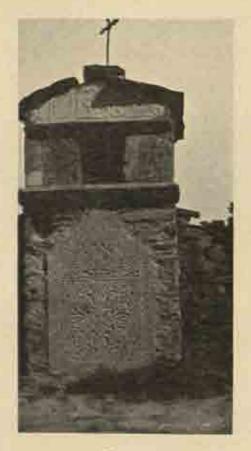
AEH CICEV TEAÖC AEON TIOVMO NAXOV

<sup>44</sup> These latters conomil the date, which is, if one may venture a guess, 7146, that is 1638 A.B.

and over the bearded figure :-

### KAIQZEINETII CKEYIC

Part of the sense of the inscription is quite clear, but the rest, even if copied correctly, is unintelligible. The prominent position assigned to the Virgin in this relief is noticeable. And in any case this relief and that of St. Michael



F(6; 4.

are remarkable owing to the great rarity of Byzantine figure sculptures of sacred subjects.

In a small wayside shrine by a spring close to the Church is a gable-topped murble slab. It is most womlerfully decorated with a finely carved pattern of scrolls and circles. I do not know what style of art it represents. It seems much too good for Byzantine, and is not Greek (Fig. 4).

# § 11.—Orminion.48

Strabo, who says that this place was a  $\kappa\omega\mu\eta$  under Pellon against the gulf, identifies it with the Homeric Ormanion, and thus says it must have been mar Lake Boebeia. Georgiades points out the incorrectness of this identification. If Ormanion were really Ormanion, why should the forces of



Fto. 5,

the latter in Homer be led by Eurypylus rather than by Eumelus or Philoctetes? Ormenion according to Homer was in Northern Thessaly, since it occurs between the districts of Tricca and Oloosson (Elassona). Strabo says Orminion was only twenty stades from Ioleus. Mézières tries to compromise

Strabo, in. 436, 438, xi. 503, 530; cf. Bumian, p. 103; Georgiades, p. 127.
Hind, ii. 734; Leake, p. 433; Möntron, p. 198;

with Strabo's account and places the site at Kaprena. This village is however much more than twenty stades from Iolcus. Klepert recognizing the faultiness of this view places Orminion at Dhimini, a village about twenty stades to the west of Volo, and famous for its tholos tombs and bronze age and Myconaean site.

Georgiades suggests that Orminion may have been at Portaria (Fig. 3), a large village on Pelion two bours above Iolous (Episkope). Here some graves have been found, and some grave reliefs also. Three of the latter are now in the Volo Museum. Two of these, of which one shows a man rowing a boat to the left, and the other shows a woman wearing a long chiton, were once in the walls of Hagios Nikolaos, and are of late work, not earlier than the second century A.D. A third relief is earlier and of better style (Fig. 5). The relief field is bordered by two Corinthian pilasters supporting an architrave



F19. 6.

carrying a pediment. In the pediment is a rosette, below which two birds support a garland. In the field there are a girl and a boy standing en face: she is clad in chiton and himation, and he has only a chlamys over his shoulders. Her left hand rests on his right shoulder: he holds a bird in his arms. At his feet is a dog, and by her right side is a birdcage. The girl is obviously older than the boy. It is a pleasing and naturally rendered subject. On the architrave is inscribed:—

# EYTTPA[EI]E///APIETOBOYAGE

At the place called \$\lambda \text{200} \text{s} where graves have been found there is nothing to be seen.

In the church of the Harayia is a late grave relief; and in Hagios Nikolaos is some Byzantine sculptured decoration. In the now deserted monastery of St. John the Baptist is a late relief of the 'funeral feast' type and many fragments of Byzantine reliefs. Most interesting is a Christian relief (Fig. 6) over a spring in the court. It is 1:00 m. long by :20 m. high. In the courte is a bearded figure with a nimbus, seated on a throne with hands upraised. On either side are bearded men standing and realing books at desks. Beyond them are three other bearded figures seated at a table eating (\*): one sits at the head and the other two sit at the side. In style the relief is not bad, and does not appear to be very late. I cannot find mention of any similar reliefs, nor have I ever seen anything like it in Greece. It seems to represent a scene of monastery life; one of the novices or junior monks reads a passage of Scripture to the others while at their evening meal. On the whole from a consideration of the extant remains, there is no decisive reason for placing Orminion at Portarià, but it is a possible site.

#### § 12.—Pagasae.10

There is fortunately no doubt about the site of Pagasae. It stood on the cocky promontory opposite to Demetrias, on the other side of Volo harbour.



From 7. (From Photograph by Dr. Fredrich.)

Leake was the first to identify the site, and his view has been accepted by Mezières, Bursian, and Georgiades. The site divides itself into two parts, the lower town on the low hills near the seashore round the lighthouse, and the acropolis on a steep and rocky hill inland to the north-west whose easternmost precipitous face touches the north-western corner of the Volo harbour.

Piiny, iv. 8, 15; Pomponina Meia, (i. 3, § 6; Propertius, i. 20, 17; Demosthems, Ol. i. 11, 18; Diodorns, evi. 3, 1; Scylax, 64; Strabo, iv. 436; Henod, Scat. Her. 70; Apol.

tonine Rhodins, L. 403: Heginus, Astron. ii. 37; Leake, p. 569; Ussing, op. co. p. 103; Bursins, p. 69; Georgiades, p. 149; Bedwell, Tour through Greece, ii. p. 87.

All round the lighthouse promontory the circuit of the wall may be traced. Only the foundations are visible: they are built of square blocks laid in fairly regular courses. The south-western and north-eastern walls may be followed across the narrow valley through which passes the Volo-Almyro road. As one follows the south-western wall where it mounts the low hills to the west before reaching the steep hill already mentioned, there are portions of the wall in a fairly good state of preservation. In places it is well over a metre high. Its construction is fairly archaic; it is built of rough blocks without much care as regards jointing or regular courses (Fig. 7). It shows a kind of construction midway between true polygonal and regular ashlar masonry. Further where the wall crosses a narrow saddle between the low hills and the steep hill, the site of the west gate is clearly visible. The approach is narrow and enters obliquely between a projecting tower on the right and the wall on the left. This plan of gate-building is characteristic of Hellenistic fortifica-



Fig. 8. (From Photograph by Dr. Fredrich.)

tion, for example at Pergamum and Demetrias. But from before this gate and after it the character of the wall changes. It is built with regular courses of rather small well-squared blocks (Fig. 8). Towers are frequent and rather square in plan; they are on the average 7-25 metres deep and 9-30 metres long. The wall is about 2-85 m. thick. The acropolis is at the eastern end of this rocky hill, where it falls precipitously to the harbour of Volo. The acropolis is formed as at Demetrias by the splitting of the wall into two branches. These walls spread out, enclosing a large space on the highest part of the hill, and then rejoin. Here the use of unbaked brick for the superstructure of the walls and towers is clearly discernible. It also seems to have been used for some of the towers in the stretch of wall between the west gate and the acropolis. We can perhaps distinguish three periods in the wall: (1) Archaic puriod, wall below west gate; (2) Fourth century, wall between west gate and acropolis; (3) Late Hellenistic, acropolis and towers to wall between west gate

and acropolis. The use of unbaked brick here seems to denote a late period, as also at Demetrias. The towers clearly are not contemporaneous with those of Demetrias: at the latter city they usually measure 6.10 m. × 2.40 m., here on the contrary 7.25 m.× 9.30 m. Pagasae was one of the cities depopulated to create Demetrias therefore this acropolis can hardly be early Hellenistic. It probably dates from the second or first century n.c. when Pagasae became once more prosperous as the port of Pherae. A tower, at the eastern and of the acropolis where the walls reunite, is built of fine ashlar masonry (Fig. 9), and still stands to a height of over three metres. The wall is built in the usual manner elsewhere; only the facings are properly constructed with occasional bonding courses to tie them together, Between the facings there is a packing of earth and stones. Where the acropolis walls are close together, the wall is only 1.80 – 2.10 m, thick and consists of the two facings bonded together, the inner one being less well



Fro. 9 (From Photograph by Dr. Frodricht)

built. The course of the wall down the precipitous end of this steep hill is not to be traced. But it is to be found again crossing the plain where the Velo-Almyre road passes, to the lighthouse promontory. Here are traces of a gate, inside which the rained piers of a late Roman aqueduct are visible, and also the remains of some late building. At the foot of the rocky hill close to the shore, where the salt springs supposed to give the city its name bubble up is a small flight of steps cut in the rock. They lead to a small terrace: here are many fragments of marble and pottery. It was possibly the site of a shrine. By the lighthouse there is a quay whose antiquity is doubtful. The site of the theatre mentioned by Leake is no longer distinguishable. According to Georgiades the inscribed stellar now walled up in the church of Hagies Nikolaos at Volo were found somewhere in the castern part of Pagasae. It is to be hoped that the site of Pagasae will some time soon be properly planned and described,

## § 13.—Glaphyrae.

About two hours north of Volo, amongst the bills separating the plain of Volo from lake Boebeis, is the village of Kaprena. On a peak, a little north of the village and falling steeply to the lake, is the encrint of some ancient city, surrounding the church of Prophetes Elias. The hill is oval in shape and all round it runs a wall more or less well preserved. It is in places as much as 3.15 m high, and 1.20 m.—1.50 m, thick. In style it may be called polygonal: the blocks are roughly worked according to their natural shapes and packed together. But as the local stone splits naturally into slabs, slabs are commoner than blocks in the wall (Fig. 10): Red potsherds are



Fig. 10.

common on the site, but black-glazed sherds rare. In a field on the west some graves have been found. At Kanalia I was shown a terracotta from this site. It is a male head '08 m, high, bollow moulded. The hair is arranged in one row of tight, formal curls over the forehead. The noss and mouth are firm and strong; the face narrow and the eyes placed obliquely. It seemed good early fifth century work. There are also in the Demarcheson in the same village two inscriptions from Kaprena.

(1) Grave stele; plain pilasters and gable: '77 m. x 58 m.

On architrave, good lettering:

ΣΑΙΔΡΟΣ Ε(Ι) ΠΟΥ ΗΡΩΣ = Σανδρος Σίμου ήρως

<sup>\*\*</sup> Hint, H. 712, Stephanus, a.s., Lenke, Georgindes, p. 129, p. 432; Mérières, p. 193; Burnian, p. 103;

Below in field, rough lettering:

AYCIMAXAMAPKOY HPWCXPHCTHX6PE MAPKOCAICXPONNOC

This stell was clearly used twice over.

(2) Pointed gable top, 95 m. x 24 m. Letters 02 m. high: good period.

EPMONEYEA
MENOSAIONY
EOTHNAE
ANEOHKE
AIPAPMEN[IE]
I[\*]OEKAINI[K]
ANAPOE

Leake identifies this site at Kaprena with Glaphyrae, a city whose inhabitants occur in the Homeric Catalogus with those of Boebe under the command of Eumelus. Mézières wished to call it Ormenion. Bursian and Georgiades both accept Leake's identification, which is the most probable.

## \$ 14. Boste.

From Kaprena a steep path leads down a difficult ravine, in which there are to be found traces of a rock-cut road, to the shores of the lake. A little over an hour from Kaprena and more than half-way to Kanalia (Boebe) stands the church of Hagios Nikolaos. This, as stated by Leake, is all that is left of the village of Karla which gave the lake its modern name. In this charch are many architectural fragments. The after is an Attic-Ionic column base 68 m square and 1-20 m in circumference. The walls contain many squared blocks of poros and of marble. There are also two column drums with twenty flutes and 52 m, in diameter. In all probability a temple once stood on this spot. Near the village of Kanalia the centre of the modern deme of Boebe, there are three Palaiokastra. The northernmost is a very small hill surmounted by remains of some late fort built of small rough stones and mortar. The second a little further to the south is steeper and its crest is surrounded by a 'Pelasgian' wall of rough stones loosely packed together (Fig. 11) It is now not more than a metre high: it resembles a little than wall of Glaphyrae. At the foot of this hill to the north is a very good spring.

<sup>\*\*</sup> Hind, ii. 712; Strabo, iz. 436; Horodotno, vii. 128; Euripidea. Alc. 590; Pindar, Pyth. iii. 34; Lucan, vii. 178; Proportius, ii.

<sup>2 11 |</sup> Leake, p. 428 ; Mezirres, p. 107 | Bursian, p. 63 ; Garginder, pp. 128 sepp.

Near this spring is the monastery of Hagios Athanasios where Leake says he saw large masses of stone. There are some squared blocks here now, and late column drams. Leake also saw quadrangular blocks of stone on the second Pahaiokastro which apparently no longer exist, and at the back of it graves built of slabs. The third Palaiokastro is a low hill lying a little further south. This is covered with traces of mortar and tiles, and does not seem to have been an Hellenic site. At its foot to the west was the peculiar building described fully by Leake; this as stated by Georgiades has since been destroyed by treasure seekers. If Leake was right in stating that a small quantity of cement mixed with broken tiles has been employed in this



Fre 11.

masonry, it cannot have been Hellenic. In the vineyards below this third Palaiokastro, slab-built graves are eften found. Over two of these the following inscriptions have been recently found:—

(1) Stele, stone, 72 m, x 41 m.: reads downwards.

#### **FENNAIA**

Good fifth century lettering. The name occurs in an inscription in Volo Museum, No. 7, Γενναία | Τειμαξένου | Θηβαία, Letters are 00 m, high.

(2) Stele mogh slab; broken at top; reads downwards; 85 m × 30 m.

... MAKEKAES

Letters '07 m. high. Dr. Wilhelm suggests that this inscription should be restured as follows:-

# EVAAMOTOAESA MAKEKAES ETAIHVIOSEV ANTA

From one of these graves I was shown the bows of two bronze fibuline '05 m. and '07 m. long. They are of a rather unusual type, being made of a solid rod ornamented with circular bosses and sharp ridges. For their type compare the geometric fibrila from Thebes figured by Ridgeway. We may thus perhaps say that this type of fibula was still being used in The-saly in the sixth century.

Kanalia, which lies just at the fact of the northern Palmokastro, between the hills and the lake, is quite a modern village dependent on the lake fishery which is strictly preserved and managed by a company. Carp is the

principal fish;

A tedious climb of an hour to a place called a relyes on the steep tillis above the village, brought us to a cliff. Thus we found our informant was justified in stating that & reixos was so well built that it resembled living rock.

ALAN J. B. WACE.

#### APPENDIX.

## The Imperial Comage of the Magnetes

During my journey down the Magnesian peninsula I saw many coins. Amongst those I obtained myself are two imperial coins of the Magnetes of Severus Alexander and Gallienus. Amongst my notes I find mention of several others. The information as to the provenance being certain, we are enabled to attribute to the Magnetes a series of bronze coins hitherto classed under Magnesia ad Maeandrum. The reverse types shew a centaur, the Argo, or a deity identifiable from the legend as Zeus Akraios who as we know was worshipped on the summit of Pelion. The catalogue of known types and varieties is as follows:

 Augustus (1): beardless head to r.: dot border. . . . CCEBACT. Her centaur to r.

[Athens Magnetes.] Fig. 12, 3.

<sup>&</sup>quot; The name \$550pms is of ourse arbitrary, Heartsidar would suit us well; for the type of the inscription and the name compare Katlen. 183 - 1.Q. iv. 1, 521 | Salmann, Phone Man. Hx. p. 105 : and also Ath. Math. 1896, p. 248; Math. 1882, p. 69 stoy. ; that 1882, p. 333, 3; Kern, Janez. These, Antiquiss Spit. p. 6; God. 1889, p. 53 = B.C.H. 1889, p. 271.

Solumen, Rhein, Mur. Ivili. p. 611 limes; For Eddera of Electicas, Pansanias, L. H. 10.

<sup>&</sup>quot; Early Age of Groces, p. 568, Fig. 119. is Disserrius apad P.H.O. ii. 262; Ath.

- Nero: head to r., laur.; dut border; CEBACTOC.
   Rev. centaur to r., r. hand outstretched, L holds branch on shoulder; MAF[NH, beneath M(t).
   [Brit. Museum, Magnetes.<sup>65</sup>] Fig. 12, 4.
- Marcus Aurelius , head to r , laur.; AVTMAVP[ANTΩNEI]NOC.
   Rev Aphrodite elad in chiton standing to r , r , hand holds sceptre, l , a pomegranate; behind her Erosto r ; NOTHNIAMAI∋AHNOSΦA.



Imhoof-Blumer reads MHACIA; this I think should be NHACIA.

Aphrodite Neloia was a goddess of the Magnetes, and the reverse legend agrees in type with the other coins reading MACNHTWNAKPAIOC, etc. 55

[Berlin, Magnesia ad Macandrum.]

Septimius Severus: head to r., dot border; CE... HPOC.
 Rec. Zens Akraios nude standing three-quarter profile to left,

Wroth; Nam. Chron. 1900, p. 3, Pl. 11. 1.
 91; for Aphrodite Nelsin, cf. Ath. Math. 1890,
 Imbuol-Blumer, Mann. Greequin, p. 292.
 p. 803, 12, \*\*, shore, p. 153.

r. land holds sceptre, L a thunderbolt; MAΓNHTWN AKPAIOC.

[Athens, Magnetes.] Fig. 12, 5.

- 5. Geta: head to r.; HOY AO CE HT FETAC.
  - Rev. same type and inscription as 4.

    [Imboof-Blumer, Magnesia ad Macandrum."]
- Severus Alexander: head to r., dot border; ..., P AΛΕΞΑΝΔΡΟC. Rev. Argo with rowers to L; ... HT ωN AP ... Fig. 12, 6.

  [Brit Mus. Magnesia ad Macandrum, 66; A. J. B. W.]
- 7 Severus Alexander; head to r., dot border; . . . ΑΛΕΞΑΝΔΡΟC. Rev. same type and inscription as 4. [Seen at Argelaste by A. J. B. W.]
- 8 Maximinus: head to r., laur., ΓΑΙΟΥΛΙΘ ΜΑΖΙΜΕΙΝΟΣ. Rev. same type (apparently) as 6; ΜΑΓΝΗΤώΝ ΑΡΓώ. [Mionnet, Suppl. vi. p. 249, 1095, Magnesia ad Macandrum.]
- Gordinaus Pius: head to x<sub>i</sub>, laur.; MA AN ΓΟΡΔΙΑΝΟΣ.
   Rev. same type and inscription as 8: in field B.
   [Mionnet, Suppl. vi. p. 253, 1122, Magnesia ad Macandrum.]
- Trebonianus Gallus: bust to r., Jaur.; TPEB FAAAOC.
   Ecr. same type and inscription as 8.
   [Brit, Mus. Magnesia ad Masandrum, 103.] Fig. 12, 7.
- Gallienus: head to r.; . . . OYB ΓΑΛΑ . . . . .
   Rev. Argo with rowers to r.; [MAΓNH]TωN A[PFω].
   [A. J. B. W.; Mionnet, Suppl. vi. p. 256, 1141, Magnesia ad Micandrum.] Fig. 12, 8.

Those of these coins that I have seen all correspond in style and fabric, and therefore with the new evidence as regards provenance their reattribution to the Magnetes seems certain. To the list of the autonomous coins of the Magnetes I would add the following:

- A Bearded head to r , dot border; MAFN HTWN.
  - Rev. Asclepius enthroned to r., r. hand holds sceptre, l. a snake.
    [Athens, Magnetes; Brit. Mus. Magnetes; A. J. B. W.]
    Fig. 12, 2.
- B. Similar head to r.

Rev. Asclepius enthroned as on A; MACNH . . .; star countermark.

[Brit. Mus. Magnetes.] Fig. 12, L.

midaille must été nutrejois attribués a la Magnésie de Thomalie; elle sat fei a sa vérsiable place.

<sup>&</sup>lt;sup>32</sup> Imboof-Blumer, Gricobische Musica, p. 120, 312 (Abhand, Bay, Akad. 1888-1890, p. 644).

<sup>&</sup>quot;Mount remarks on this coin; cette

Of these two B is of better style than A, but both are of bad style. They cannot be earlier than the first century before Christ. My notes also contain mention of the following two types as seen in the peninsula, they are probably of the same date.

- C. Male figure in boat, illegible inscription. Rev. centaur; ΜΑΓΝΗΤώΝ
- D. Apollo (i) head.
  Rev. satyr with torch; MAΓNHTωN.

Since this was first written Dr. Imhoof-Blumer informs me that another specimen in the Lobbecke collection of No. 3 of the list above has been published. It is inscribed on the obverse AYKMAYKOMANTWNINOC, and on the reverse NWTHNIAMAIJAHNO9ΦA. This shows that the coin is of Commodus and not Marcus Aurelius. Also it confirms my opinion that Nηλεια and not Mηλεία should be read, thus making it certain that the coin belongs to the Magnetes and not to Magnesia at Macandrum.

A. J. B. W.

p. 110; I am she informed that Mr. Talbot Roady had not long store a coin in good condition with a similar reverse inscription.

<sup>&</sup>lt;sup>10</sup> Löbbecke, Z f. N. zii, p. 319, Pt. XIII, 6. (Löbbecke rende Massia, but in the plate Seixens be quite clear); Imboof-Rumer, Greek, Musica,

#### THE ATALANTA OF TEGEA

THE scanty remains of the pediments of the temple of Athena Alea at Tegen were for many years the basis of all constructive criticism of the style of Scopus; their attribution to him has met with such universal. acceptance that I need not here discuss it; in view especially of their extraordinary vigour and originality it seems to me indisputable. The news that the executation on the site of the temple was to be continued by M. Mendel, of the French School at Athens, was therefore received with the greatest interest, and his publication of his results fully justifies these anticipations. I wish to acknowledge the courtesy with which M. Holleaux, the Director of the French School at Athens, has allowed me to reproduce the illustrations from the Bulletin de Correspondance Hellénique; for the use I have made of them in the case of the Atalanta I must accept the responsibility. It is not, however, possible, from the publication alone, to appreciate all the evidence that has to be taken into account. I had an opportunity, in April 1904, of studying carefully the statues in the local museum at Tegen, in company with Mr. D. L. Richmond of King's College Cambridge. I think it will conduce to clearness if I say at once that a study of the originals enabled us to make two observations which offer new data for artistic criticism: firstly, that the torse identified by M. Mendel as the torse of Atalanta from the E pediment is in Parian marble, not in the local Doliana marble, like the rest of the pedimental figures; and secondly, that the head in Parism murble, which M. Mendel suggested might perhaps belong to a statue by Scopes placed within the temple, almost certainly belongs to this torso of Atalanta. I have not made public these observations at an earlier date, partly because I believe we were not the first to make them; they would, indeed, be likely to occur to any visitor to Tegen; but, so far as I know, they have not yet bean published and discussed. The lapse of

the figure appear too large in proportion to the appear parts. I have tried to remedy this defect in the accompanying illustration, prepared for me by Mr. Anderson, by aloping the brave part of the photograph reproduced away from the lone at a smaller angle.

In the recent edition of my Handbook of Greek Sculpherr, Fig. 140, I have joined the head and body together to scale, using the photographic plates in the Balletin on Corr. Hell att, wand vi. But the mighted photograph was evidently taken with the those slaping backward, and so the lower parts of

time has also given an opportunity for weighing more carefully evidence which seems at variance with much that we have before learnt about Scopas.

Before considering this question of the Atalanta in more detail a brief recapitulation of the rest of our evidence as to Scopus at Tegea may seem desirable.



THE ATALANTA OF THURS.

We are told by Pausanias that the temple of Athena Alea at Tegea was by far the finest in the Peloponnese. Within it had Ionic columns, and the external order was Doric; there were also Corinthian columns in the inner row at front and back. It was rebuilt after its destruction by fire in 395 B.C. Scopas was the architect; the front pediment contained the hunt of the Calydonian boar. This pediment is described by Pausanias with sufficient

detail to give us some notion of its composition. In the centre was the boar, facing to the left, attacked by the three leading hunters. Atalanta, Meleager, and Thesena; on either side of this central group was a half-failer figure supported by a comrade, the wounded Ancaeus, and Telamon, who had stumbled, supported by Pelcus; beyond these were the Dioscuri, one on each side, and behind them three other heroes; we cannot tell how the angles of the pediment were filled. On the back pediment was the fight between Achilles and Telephas on the plain of the Caicus, but Paosanias unfortunately tells us nothing of its composition. Within the temple there were statues of Pentelic marble by Scopas, set up beside the statue of Athena, on one side Asclepius, on the other Hygieia.

Eragments of sculpture belonging to the pediments of the temple have been known for some time; the more important of them, which are now in the National Museum at Athens, are two heads of heroes, one have and one helmeted-and the head of a boor. The recent excavations by M. Mendel have led to the discovery of more fragments from the pediments, some of them of a most interesting character. Two more heads, one of them bare, and one of them covered with a lion's scalp, some degs' heads, and various fragments of limbs, are of the same material as the fragments previously discovered—marble from Doliana near Teges, which, unfortunately, has little power of resisting exposure to weather and damp. Consequently all are in a poor state of preservation. The most important of the new discoveries is a female torse in Amazonian dress, which can hardly belong to any other figure than Atalanta, and a head which almost certainly belongs to this torso." Both head and torso are of Parian marble, and one arm and a foot of the same material doubtless belong also to this figure. Though the Parian marble has resisted the decomposing force of the damp ground in which it was buried better than the Duliana marble, and so has preserved its form almost intact, the surface has been almost entirely corroded, so that the effect of the final polish of the surface is lest. In spite of this the head retains a wonderful amount of vigour and freshness of effect, and great individuality of character, and deserves to be ranked, even apart from the circumstances of its discovery, among the finest fourth-century heads that we possess. The difference of material naturally gives rise to the question whether the Parian marble figure belongs to one of the pediments of the temple, and, if so, whether it belongs to the same pediment as the other figures in inferior local marble.

The appropriateness of this Amazonian torso for the lumitress Atalanta has already been noticed; and the absence of finish at the back goes to prove that it was a pedimental figure. M. Mendel, who conducted the excavations and published the sculptures that were found in them, had no doubt that it

<sup>2.</sup> I state this opinion after a cureful study of the originals in the Moscum at Toges. The fractures do not exactly fit; but the time of a cut—apparently a blow from some sharp instrument—appears on the lower surface and is

continued on the upper. The lead, when placed in its proper position on the torso, has a most harmonious effect; scale and material alone suffice to make the connexion probable.

belonged to the same group as the other figures; and it is not difficult to find a reason for the use of Parian marble in the case of Atalanta. She was the only female figure in the two pediments, so far as we can judge from the description of Pausanius, and in order to reader with due effect the colour and texture of her skin on face, arms, and legs, the sculptor may well have chosen to substitute; in the case of this one figure, Parian marble for Dolinna, The other figures, being male, were very probably coloured all over. In fact the case is almost analogous to the marble insertions in the later metopes of Selinus, which are also used only in the case of female figures; the main difference is that in that case only the nucle parts of female figures-face and arms and feet-are made of marble the rest being of the same local material that sufficed for the male figures. The inferior material at Selimus is, index-1, not marble at all, but limestone; but we have an excellent example of the use of a superior and an inferior murble, under somewhat similar committions, in the Demeter of Cuidus: there the local marble is considered good enough for the draped body of the statue; but Parian marble is used for the head, and to it is due, in no small degree, the extraordinary beauty of the effect; and it is worth noticing, especially in this connexion, that the charioteer frieze of the Mansoleum-the part of the sculpture by general consent associated with Scopas-is in Parian marble, and owes something of its beauty to that material, while the rest of the scalpture and architecture is in inferior local marbles. There is, therefore, nothing impossible or even improbable in the use of Parian marble for the only female figure in a poliment of which the rest was made of local marble; the scale and subject are suitable; the only question that remains is that of style, and this must now be considered.

It will be best to take the male heads first, partly because two of them have long been familiar, and are generally recognized as the typical examples of the work of Scopas, partly because their attribution to the pediments cannot be doubted. All of them alike are characterized by an intensity of expression such as is hardly to be found in any other heads that have survived from ancient times. The subjects of the two pediments, the hunt of the Calydonian boar and the battle of Achilles and Telephus, supplied the artist with themes which enabled him to represent all the heroes in the excisement of action and of danger; and he has used the opportunity to the full. Of the two heads that have been known for some time, one is that of a helmeted warrior with his gaze directed upwards-not that he is looking up at an antagonist on a higher level, but that his body was evidently leaning forward, and his head consequently bent back, as is shown by the strained muscles of the neck. The intensity of the expression is, however, enhanced by this position of the head; the eyes are set very deep in their sockets, and heavily overshadowed. at their inner corners, by the strong projection of the brow, which does not, however, as in some later examples of a similar intention on the part of the artist, meet the line of the nose at an acute angle, but arches away from it in a bold curve. At the outer corners the eyes are also heavily overshadowed. here by a projecting mass of flesh or nuscle which overhangs and actually

hides in part the upper eyelid. The eyes are very wide-open-with a dilation which comes from fixing the eyes upon a distant object-and therefore suggest the far-away look associated with a pessionate nature. A similar impression is conveyed by the dilated mostril and the half-open mouth, the teeth clearly showing between the parted lips. The whole structure of the head is also suitable to the character pourtrayed; it is of a broad and massive type, and seems to imply that Scopss followed the traditions of Peloponnesian rather than of Atticart. This general description will apply almost equally well to the rest of the male beads from the Tegean pediments. It is true that the other head in Athens, the unhelmeted one, has not the same upward direction of the gaze, nor the same strain on the muscles of the neck, caused by the fact that the figure is bent forward; but it has in a still higher degree the earnest intensity of expression; and this expression is obtained by a similar treatment of the eyes and the surrounding muscles, and is associated with a similar physical type. The same may be said of the recently discovered head of Heracles now at Tegen. This head is characterised by a lion's scale worn as a helmet, the face of the hero fitting into the open. jawa of the beast; the teeth are seen above his furchead, and the mane, finely worked, on the back of his head. Though the face is badly damaged, it is still possible to appreciate, both in full face and in profile, the passionate expression of the deep-set eyes, and to notice the means by which that expression is again rendered. The other newly found male head, which is also in poor preservation, and is somewhat sketchily finished, is similar in character to the rest.

But the interest of the new discoveries centres in the head and torso in Parian marble, which, as we have seen, probably belong to each other, and are to be assigned to the Atalanta of the pediment. She is clad in a chiton which is fastened upon the left shoulder only, leaving the right breast bare. The folds of its drapery are indicated with a flow and vigour which at first sight suggest a comparison with the Attic work of the latter part of the lifth century, and the work under the same influence which we find at Englaurus and elsewhere in the early part of the fourth century. But a closer examination reveals features which rather recall the characteristics of Hellenistic art, in the restlessness of detail, and the minute touches of realism; this is especially noticeable in the folds just beneath the girdle. which are like those in the torse of Apollo Citharedus from the Mausoleum, another work of the School of Scopas. Such an anticipation of the characteristics of a later age is fully in accord with the style of the male heads from the Tegean pediments; but, when we come to consider the hand which, as we have seen reason to believe, almost certainly belongs to this figure of Atalanta, we are at once confronted with a remarkable difference. The expression is, indeed, no less full of life and vigour than in the male heads, and the execution excels theirs in freshness and delicacy. But we can find in the Atalanta nothing of that passionate intensity of gaze which distinguishes the male heads of Tegen beyond all others that have survived from ancient times. The eyes are not set in deep below the brow, nor

have they the wide-open, dilated pupils that we have noticed in the other heads by Scopas; instead of this they are rather long and narrow, and symmetrical in shape. Nor are they overhung at the outer sides by a heavy mass of flesh. This, perhaps, in a youthful female head was hardle to be expected. But instead of it, we notice a curious chameteristic which is not dissimilar in character; this is a clearly marked, though delicately rounded, roll of flesh between the brow and the upper eyelid which is continued right round above the inner corner of the eye, to join the swelling at the side of the nese, which itself passes on into the cheek. I do not know any head in which this curious characteristic is so clearly indicated, but several of the heads osually regarded as either attributable to Scopus himself or shewing his influence show it in some degree; and it can be transd back, in a rudimentary form, to the benda often associated with Cresibia! Though the lower part of the face has a longer, more Attic oval than the male bends, we can still see in the distended nestril and half-open lips, a temperament akin to those of the warriors, though less violent and unrestrained; the general form and character of the face reminds us of the Artemia from the great Lycomira group by Damophou.

We need, then, feel no insuperable objection to attributing this figure of Atalanta also to Scopas; but the contrast in expression between Atalanta and the heroes who surround her in the hunt certainly calls for some explanation. The contrast between the calm of Apollo and the excitement of the Lagaths who join in the combat on the Olympian pediment suggests itself as an analogy; but there is no reason to suppose that Atalanta was present only as a spectator; the action of her torso certainly belies it; nor have we any syounds for doubting the identification as given us by Pausanius, and supposing the figure to be a guidese-say Artenia. It seems more probable that the explanation may be found partly in the sex and the youthfulness of the maiden huntress; and even in the fourth century there may still have remained a half conscious tradition that Atalanta was no more beroine but originally a goddess herself. She should not then, show the stress and passion of combat that have left their trace on the faces of the heroes. For the contrast between calm and passion in the faces of those engaged in the same contest we may compare also the Lapitha and Contains of the Parthenon metopes; there it distinguishes the human from the bestial combatants; here, perhaps, the heroine goddess from her human companions. We must remember also that this extrems of expression was a new experiment, and that Scopas might not improbably have shrank from applying it to female heads as well as to male heads at once, in this early piece of his work. Later we are something of the same tendency in his female heads also, though never in an extreme a form. For an analogous contrast between the

<sup>\*</sup> E.y. The Apollo from the Ministerin, Brit. Man. Catalogue, vol. 2, Pl. XX, 2, J.H.S. and p. 122. We may also see it in the Domoter of Californ.

<sup>.</sup> Roy. The Bland of Puricise in the British

Museum, and the Nelson Athlets, J.H. v. well.

<sup>\*</sup> Some amport may be gained for this engsention by questing Panaguian similar mistake as Olympia, when he took Apollo for Protomus.

male and female types used by the same artist, we need go no further than to Praxiteles. There is hardly more contrast between the Herneles and the Atalanta of Tegos, than between the Hermes of Olympia and the Aphrodite of Chilus.

Among femule heads that have been associated with Scopas and that therefore offer themselves here for comparison, is the well-known head from the S of the Acropulis at Athens; " though this has certain points of resemblance with the Atalanta it also shows points of difference; it is broader and more mature in type. But as its association with Scopas is purely upon grounds of style, it does not afford a very safe criterion for accepting or rejecting such association in a case where the external evidence is strong. It is otherwise with the copy of the musuad of Scopus published by Prof. Treu in the Melanges Perroc. Here the head is similar in character to the male heads from Tegen, and so far tells against an attribution to Scopas of the head of the Atalanta; but we may well imagine that he may later have applied to his treatment of a female head, in the cestary of passion, the same devices which he had restricted to the male heads at Togon, but had refrained from using for his maiden beroine. On the other hand, the drapery of the magnet in its realistic touches, especially in the folds bemeath the girdle, reminds us strongly of the Tegenn Atalanta.

If the conclusion here had down be accepted, we shall have a new criterion, to apply to the identification of works to be associated with Scopas or to be regarded as showing his influence. We have already noted the resemblance to the Atalanta of the bead of Artemis from Lycosura, and the consequent confirmation of the fourth century date of Damophon. But it would lead us too far afield if we were to pursue this investigation at present.

The more we study the character of the art of Scopus, the wider and deeper we find his influence to have been, and it can hardly be doubted that new data for comparison will lead to this influence being traced into new channels and recognized in new developments.

ERNEST GARDNER.

<sup>\*</sup> E. A. Gardner, Hamilton's of Scinfphere, \* Fig. V. pp. 217 app. Fig. 10).

# THE PYRAMID OF MOERIS.

In my paper on the Two Labyrinths (J.H.S. xxv. p. 320) I have throughout spoken of the Pyramid of Hawars, in front of which the Egyptian Lubyrinth was erected as the pyramid of Amenembat III (Lamaris or Moeris) and have described it as his tomb. Now the southern brick pyramid of Dashur, excavated by M.M. de Morgan and Legrain some years ago, also belonged to Amenembat III, and is claimed by its excavators as the tomb of the king the old identification, adopted by Lepsius and Petrie, of the Hawara pyramid as his tomb, being considered to be erroneous. As this fact was not mentioned in my former paper I add a short postscript on the

M. de Morgan forgot that many Egyptian kings were provided with two subject. tombs, one of which was a secondary sepalchre built in another part of the country from his real tomb either in order to delude would-be tomb-robbers or as a memorial in some specially secred place, such as Abydos. Aha, perhaps the earliest King of Egypt, and two tombs, one at Abydos, the other at Nakada. Tjesur Khetneter, of the IIIrd Dynnsty, also had two tombs, one (the Step Pyramid) at Sakkara, the necropolis of Memphis, the other a great mustaba at Bet Khallaf, not far north at Abydos. Senefera the last king of the same dynasty, and two great stone pyramids, one at Modum, the other at Dashur, both of which are still among the most important ancient monuments of Egypt, Usertsen (Senusret) III (Lachures), the predecessor of Amenembat III, had, like the latter, a pyramid in the Momphite necropolis (the Northern brick pyramid of Dashur), and also a rock-cut bab or gallery-tomb in the southern cliffs of Abydes, excavated by Meses Weigall and Currelly. Ashmes I had a curious and roughly-excavated secondary tomb at Abydas, and without doubt a gallery-tomb in the Dra' Abn 'i-Negga at Thebes. Queen Teta-shera, the grandmother of Anhanes, had her real tomb in the Dra Abu T-Negga, and a mock-tomb (a pyramid) built as a memorial to her by Ashmes at Abydos. All the Abylens tombs were probably more memorials in the sacred land. of Osiris and the reason why no trace of the burials of Aalones or Usertsen TH lave been found in the tombs at Abydes is, perimps, because they were mover buried there, their real tombs being in the Dra' Abu 'l-Negga (whence the body of Aalones was removed to the Deir el-Bahari pit and

<sup>1</sup> F. Illes & Dahshour, 1894-5 (Vienna, 1908), p. 106,

thence to Bulak Museum in 1881) and at Dashur. In the same way Amenembat III had two tombs, the pyramid of Hawarn and the southern brick pyramid of Dashur. If his predecessor's real tomb was the northern brick pyramid, it might be supposed that the Dashur tomb is the real burialplace of King Moeris, the Hawara pyramid being a monument put up in the sacred Lake-land of the Fayyum which owed so much to the king and to whose crocodile-god be was so devoted, just as other kings had secondary tombs in the holy land of Osiris at Abydos. This may be, though there seems to be no particular reason why the reverse should not be the correct explanation. We simply do not know. In any case M. de Morgan was right in saying that the southern brick pyramid of Dashur belonged to Amenemhat III but was wrong in saying that the Hawara pyramid did not. Both it and the Labyrinth adjoining were built by him. Whether king Moeris was actually buried at Hawara or at Dashur, later generations regarded the pyramid adjoining the Labyrinth as his actual tomb, and as such I treated it in my paper on 'the Two Labyrinths.'

H. R. HALL.

Dynasties at Umm el-Ga'ale in the necoupells of Abydea may not be in reality the actual tembs of the early kings at all, but simply secondary tembs built as memorials in the haly land of Osiris, the actual sepulchres being elsewhere; Ana cartainly had two tembs, one at Umm el-Ga'ale the other at Nakida, and it may be that the latter was his real touth. Now these early secondary (I) tembs were furnished as completely as if the kings had actually been buried in them. The mock or imitation formbs, us the pyramid of Teta shara, were more or less carrilledy made of rubbile, like the usock pyramid of Mentulestep at Deir el-Bishari. They are not secondary tomos, properly speaking.

It might be objected that the great sarcophages in the Usertson tomb would hardly have
been dragged down to such a depth had it not
been originally intended that the royal body
should rest in it, and that a more memorial
tomb at Abydos would hardly have been correct
out with full resultatic detail, everything being
there except the body itself. I do not know,
however, that this is impossible, given the
idea of making a secondary temb at all. The
two pyramids of Americana III at Dashur
and Hawara are equally elaborately built,
though one of them was not the actual restingplace of the king. It has occurred to me that
perhaps the royal tombs of the First and Second

## INSCRIPTIONS FROM ASTYPALAEA

 FOUND in the ground of Michael Palatianos at Martezana; now in a lime-store at Peragialos (the local name for the port or Skala); on the left side of a piece of marble which served as the lintel of a tomb, carved with a simple cornice. 1.27 × 0.31 × 0.17; letters 0.015 regular and carefully cut, equal in size except that Δ and Φ project beyond the lines.

ΜΗΜΟΙΠΕΙΝΦΕΡΕΘΩΔΕΜΑΤΗΝΠΕΠΟΤΑΙΓΔΡΟΤΕΖΩΝ εία for ΓΑΡ ΜΗΔΕΦΑΓΕΙΝΑΡΚΕΙΦΑΗΝΑΦΟΣΕΣΤΙΤΑΔΕ ΕΙΔΕΝΕΚΕΝΜΝΗΜΗΣΤΙΚΑΙΩΝΕΒΙΩΣΑΣΥΝΥΜΕΊΝ ΗΚΡΟΚΟΝΗΛΙΒΑΝΟΥΣΔΩΡΑΦΕΡΕΣΘΕΦΙΛΟΙ ΤΟΙΣΜΥΠΟΔΕΞΑΜΕΝΟΙΣΑΝΤΑΞΙΑΤΑΥΤΑΔΙΔΟΝΤΕΣ ΤΑΥΤΕΝΕΡΩΝΖΩΝΤΩΝΔΟΥΔΕΝΕΧΟΥΣΊΝΕΚΡΟΙ

Beneath the lintel, placed so as to be read under the doorway by those issuing out, i.e. in the reverse of the epitaph, in large letters 0.025.

## KAEYMATPAE

μή μοι πείν φέρεθ' ώδε μάτην' πέποται γάρ δτ' έζων μηδέ φαγείν' άρκει' φλήναφος έστι τάδε. εἰ δ' ἐνεκεν μνήμης τι καὶ ὧν ἐβίωσα σὺν ὑμείν ἡ κρόκον ἡ λιβάνους δῶρα φέρεσθε, φίλοι, τοῖς μ' ὑποδεξαμένοις ἀντάξια ταῦτα δίδοντες ταῦτ' ἐνερων ζώντων δ' αὐδὲν ἔχουσι νεκροί.

## Κλευμάτρας.

 Above a window in the church of Μεγάλη Παναγία (near the inser. given in I.G.I. iii. 211). Large letters, upside down.

#### KAITQAAMQI

In the inscription LGL iii. 168, the reading in line 6 should be TEIMAXMA  $\tau el\mu a\sigma\mu a$  not  $\tau e\lambda e\sigma\mu a$ .

W. H. D. ROUSE.

## THE ROCK-CUT STATUE NEAR MANISSA.

With reference to the controversy as to whether the rock-cut figure known as the Buyuk Tash (or Surat Tash) on Mount Sipylus is to be identified with the statue of the Mother of the Gods, or the weeping stone Niobe which are mentioned by Pausanias, I think the following might be worth recording.

Mons. M. G. Weber in his Le Sipplus et Les Monuments (1880, p. 117) has remarked that the statement of Pausanias (viii. 2.), that it was asserted that the Niobe wept in Summer, furnishes an argument against the identification of the Niobe with the Tash Souret, since in summer there is no water on that part of the mountain, and even in winter the figure 'ne reçoit que les eaux immédiates de la pluie. Il faut décidément chercher Niobe dans l'intérieur du massif qui cache certainement encore plus d'un monument préhistorique.

This conclusion was adopted and enlarged upon by Messrs. Perrot and Chipiez in their History of Art in Sardinia, Judaa, Syria, and Asia Minor

(English translation, ii. 236), and other writers.

When I visited Manissa last January (1905) and climbed up to the figure over the frost-bound track, I found that two icides, each perhaps three feet long, hung from the brow and chin, giving to the figure a realistic appearance of being immersed in grief and dissolved in tears. As few travellers visit this place in winter, I doubt if this remarkable effect has been noted.

H. S. COWPER.

#### NOTICES OF BOOKS.

Bacchylides; the Poems and Fragments. Edited with introduction, notes, and present translation, by Stn Rickand C. Junn. Pp. xviii + 524. Three plates. Cambridge: University Press, 1905. 15s. not.

Sir Richard Jubb's edition of Barchylules, published only a few weeks before his unexpected and lammated death, though not so great a monument of interpretative schularship as his Sophocles, is yet a characteristic example of his time and thorough workmanship. The present notice can only describe its contents, without attempting to criticise. The Introduction, of 146 pages, deals with (1) the life of Baschylides, (ii) his place in the history of Greek lyris pactry, (iii) his characteristics as a post, (iv) his dialect and grammar, (v) his metres, and (vi) the papyrus. A seventh chapter gives an exact transcript of the papyous in nomal characters. This is followed by intenductions to the odes. Then comes the text of the posms, with full critical and explanatory notes, and a prose translation ew fore, the whole excupying 168 pages. The fragments of Bacchylides not contained in the papyrus are placed next, and the volume concludes with appendices dealing with certain passages which require langur treatment then could be given in the notes, and with a vocabulary and index. Three amotype plates contain specimens of the writing of the papyrus, and sum selected portions of it in which special doubt attaches to the reading. The communitary notices very fully the work of other a holars, and the alternative readings and interpretations which have at any time I can put forward, so that the stodent has all the materials for forming his own judgement, in addition to the advantage of Jobb's guidases. It is estisfactory to know that the votume was in all respects finished babye Sir R. Jehls started on the journey to South Africa which excludes latally,

Bucolici Grasci: reconsuit et emendavis Unitares un Witarouty-Mentiferioure | Scriptorum Consisorum Bibliothern Grantmust, Pp. 27 ± 170. Oxford: University | Press, 1800. 34.

Die Textgeschichte der Griechischen Bukoliker. By the sume.

The solition of the poems which pass under the causes of Theorites, Illon, and Moschus, contributed by Prof. I. • a. Wilson-witz-Mosch-solited to the Oxford errors of classical texts, involves as as accelty of treatment, and is a norm important contribution to the mities of the simble concerned, then is usually possible in such elition. The common order of the poems is absoluted through the old numbers are retained in brackets); following the example of Abrene Wilson-witz points first the poems which he regards as germine, and attained by in the order in which they stord in the best MS. K. (1, 7, 3-0, 5-14, 2, 15, 17, 16, 18, with the solition of 23, xz, xs-30, and z4 regards, which are not in K), while an appendix continue the Kyatophia Researche the poems (Phasez, 25 and Mosch, 1) contained in MSS. If that the families in which these Advents are preserved, two (Theory, 26 and 25) found in MSS. If the H family, eight Theory, 20, 21, Mosch, 2 Theory, 16, and 25) found in MSS. If the H family, eight Theory, 20, 21, Mosch, 2 Theory, 16, and 25) found in MSS. If the H family, eight Theory, 20, 21, Mosch, 2 Theory, 16, and 25) found in MSS. If the H family, eight Theory, 20, 21, Mosch, 2 Theory, 16, and 25) found in MSS.

Bion 1, the In Adonia Mortague, Theory, 23, Bion 2) found in MSS, of the 4-family, and the Europe of Moschus, which is found separately. To these are added the fragments of Bion and Moschus, the Technopropio, and Latin arguments to all the poems. The arguments for this arrangement, and the textual history of the poems, are set forth in the German treatise which has appeared as a companion to the Oxford rolume; a brief summary of them is given in the preface to the latter. The textual apparatus is on the scale usual in this series; more extended discussions of some of the resilings will be found in the dissertation.

Griechische Papyri medizinischen und naturwissenschaftlichen Inhalte. Bearbeitst von K. Kalsenkrisch und H. Sonöne. (Berliner Klassibertente, Heft III.) Pp. 40. 3 Plates. Berlin: Weidmann, 1905.

The third part of the Berlin series of classical texts from Greek papyri includes a number of medical and literary fragments, as follows; (1) fragments of the pseudo-Hippocratic epistles, from two papyri, containing portions of Ep. 3, 4 (shorter form), 5 (both forms), and 11; (2) several fragments of a physiological treatise, dealing with the nerves, by an unknown writer of later date than Herophilus; (3) small fragment on the treatment of constipation; (4) medical treatise, including an extract from Archibins on the subject of medical education; (5) fragment, package on natural history, including a reference to a commentary of Apollonius Ruedius on Autimachus; (6) small fragment on medicine, apparently of the empirical school; (7) instructions for the preparation of lard; (8) and (9) medical receipts. An index of words is appended, and photographs of the original MSS.

Mélanges Nicole: Recueil de mémoires de philologie classique et d'archéologie, offarts é Junes Nicola, Professour à l'Université de Genéve, à l'occasion de 222 anniversaire de son professorat. Pp. 671: Portrait and 20 plates. Genève: W. Kündig et fils, 1805. Price 30 f.

The handsome volume published in honour of Prof. Jules Nicole contains contributions from no less than sixty schalars of all countries, including Blass, Cavvadias, Dorpfeld, Duchesne, Furtwängler, Herwerden, Mahaffy, Maspero, S. Remach, Robert, Tyrrell, Vitelli, and Weil. As is natural in a volume offered to an eminent editor of Greek papyri, many of the articles publish or comment on papyrus texts; such are the contributions of Comparetti, Crusine and Gerhand, Goodspeed, Gradenwitz, Schubert and Vitelli, Grenfell and Hunt, Jougnet and Lefebere, Mahaffy, Mitteis, T. Rainach, Wessely, and Wilcken. Prof. Naville describes (with a photograph) the XIth Dynasty temple discovered by himself and Mr. Hall at Deir-el-Bahari, unfortunately too soon to be able to mantion the remarkable Hathor-skrine, with the intact status of the cow-goddess, which has been the separation of this senson's work. Archaeological articles are contributed by Cagnat, Cavvadias, Dörpfeld. (on cremation and harial in ancient Green), Furtwingler (a Massapian vasa), Löwy, Milliet, Georges Nicole, Pottier (the Naples bronze of Alexander on horseback), S. Reinsch (a. Ganymede of the school of Pouriteles), Trountag and Zenghelia. Prof. van Herwerden makes some miditions to his Laricon General suppletorium. The semaining articles are mently of a literary character. Two gracuful Greek poems, by Tyrrell and Mahaffy, are prefixed. The contents of such a volume are too varied and extensive to admit of review, but it is avident that there is material for classical students of all kinds, and that some of the first scholars and archaeologists of Europe have joined to do honour to their Swiss golfongus.

A Chapter in the History of Annotation, being Scholia Aristophanica, Vol. III. By W. G. Retrianpono, formerly Head-Master of Westminster, Pp. x1+494. London: Macmillan & Co. 25s. net.

The third volume of Dr. Rutherford's edition of the Scholia in the Codex Ruvennas of Aristophunes has an independent title and an independent right to existence as a contribution to the history of scholarship. In substance it is a classification of the scholia under several heads, according as they relate to textual criticism or interpretation, and according as the interpretation deals with the manner in which the verses should be spoken, or the explanation of their form or meaning. Under this last category come the acholia which interpret the poet's phrases as examples of the various tropes or figures (such as accordant availbongs, drowinggs, and the like), those which explain unfamiliar words or matters of fact, and those which pass critical judgement on the posini. Unfortunately these two last sections form the least part of the scholiests' industry, and in many cases give nothing more than can be readily extracted from the text itself. Dr. Butherford ends with the meanest possible opinion of the scholia and the aduliasts, but his book is enlivened and surriched by a series of forcible pictures of the conditions under which they came into being. He does not attempt to assign known anthors to the scholle, regarding them rather as mere schoolmasters' annotations, but lie tries to depict the circumstances under which they arose, and he scatters hints which have an obvious bearing upon the educational questions of our own time,

Handbook of Homeric Study. By Henry Browne, S.J., M.A., New College, Oxford: Professor of Greek at University College, Dublin. Pp. xvi+333 22 Plates. London: Longmans. 6s. net.

This is a landbook to the Hemeric poems, intended for somewhat advanced students of the subject. As compared with Sir R. Jebb's well-known Introduction, it deals somewhat less fully with the literary side of the subject, but much more fully with the archaeological side, on which so much light has been thrown by recent discoveries. With regard to the composition of the Iliad, Prof. Browne follows Geddes' views in the main; on the ethnological question, he is not disposed to accept Prof. Ridgeway's theories to their full extent. The value of the book, however, consists less in the actual conclusions at which the author somewhat tentatively arrives than in his fair and sareful statements of the views held by the leading scholars on the chief points of controversy. M. Vistor Bérard's elucidations of the Odyssey, Mr. Arthur Evans' discoveries at Knossos, the British School's exercations at Phylakopi, Prof. Ridgeway's Celto-Achsean theory—in short, all the most recent contributions to the literary and archaeological study of the poems are dispussionately stated and considered; and, in addition, Prof. Browne has the advantage of using ampublished materials of Mr. Myres, whose command of the whole field of Homeric and Mysensen, archaeology it would be hard to rival.

An Introduction to Greek Epigraphy. Part II. The Inscriptions of Attica. Edited by E. S. Ronzars and E. A. Gamesen. Cambridge; University Press, 1905. Pp. xxiv+601.

This volume, which carries out for Attic inscriptions the plan proposed in its predecessor, is, it would appear from the prefect, not to be followed by others covering the inscriptions of other parts of Greece. This is to be regretted, because the non-Attic side of history and archaeology always runs a risk of being neglected. Possibly, however, as the editors hope, others may be induced to carry on the plan of the book; meanwhile we must be content with what we have. In method, the surk is more or less intermediate between those of Dittenberger and Hicks. The object of Dittenberger's invaluable work seems to be to

produce not an epigraphist proper i.e. sms who works from the stone but a bookopigraphist, a scholar who having the extent letters before him can make the most of them from the historical and philological point of view. The object of Hicks is not to produce an epigraphist at all, but merely to supply epigraphic illustrations of Greek history. Messra Roberts and Gardner, while they deal within certain limits with all sorts of inscriptions, do not aim at giving a dafinitive publication of each inscription, but merely take it as typical of a class and attempt to make it the foundation of a study of the others. In a text-book, given a certain modicum of sound matter, arrangement is everything. The matter here is of course good and plentiful (we have 410 mecriptions divided into thirteen classes). There is, however, some lack of element in the arrangement : the way in which the 'Remarks' are stattered about the various sections, instead of being collected at the beginning of easi, is disturbing. As regards the method of printing the inscriptions, a good feature is the disposing of the lines according to the original; but a somewhat numeessary complication is introduced by printing restorations in Clarendon type as well as brackets. A special form should have been adopted for the rough breathing; the plan followed here to indicate the existence of the sign of the breathing on the original does not work for words which are printed with a capital initial, such as Akoapsusage. And we can see no reason why do and go should not be preserved in the transliteration when the double letters are so written on the stone. When a book has been twice the Horatian period of years in preparation—for we presume that it was taken in hand after the publication of Vol. 1, and delayed for various rensons—it is inevitable that faults of detail should creep in ; we note, for instance, that the debt of the people of Syme (No. 1990s) is given as 4800 drachma, whereas other editors all give 4900 (they may be wrong, but the point should have been noted); that in No. 359 the words Es Alyemres Telesianos mairie are stated to be part of the later addition to the stone, which does not seem to be the case; that in No. 972 the weight of the 'gold tetradrachm' is wrongly said to be too high in proportion for a gold cast of a silver tetradracha, whereas it is as nearly as possible right; that emotioners is read instead of insponers in 13t and in the restored passage in 12t. These are of course minutine, but they are the kind of points in which the spigraphist of the new school prides himself on being correct. One or two inscriptions are omitted which we should have liked to see included such are the commercial treaty with Phaselia (Dittenberger 272); thu fragment of the confiscation list relating to Alcibiades (which is mentioned in the notes); and the inscription relating to the return of the democrats from Phyle; the last is also interesting because it contains the names of professions, which as the editors note on No. 292, are too mrs in Attic epigraphy. It is easy, however, to find fault with a book which deals with a subject of this kind; it would be ungrateful to disguise the fact that as a summary of the portion of the Corpus relating to Affic inscriptions it will be invaluable to teachers and students of all degrees.

A Handbook of Greek Sculpture. By E. A. Gardner. Revised Edition. Pp. xxxii+590. London: Macmillan & Co., 1905. 10c.

In the ravised edition of Mr. E. A. Gardner's well-known handbook, the former first and second parts have been combined into a single volume. The changes in the text are restricted to the insertion or modification of occasional sentences, a discussion of the most important discoveries of the last ten years being reserved for an appendix of 35 pages. This can also be purchased separately, by those who passess the former edition, which, it should be noted, is greatly to be preferred as far as regards the illustrations.

Studies in Ancient Furniture. By Caroline L. Ranson, 12 in. × 9 in. Pp. 128+30 plates. Chicago: The University Press, 1905. 84,50 n.

The sub-fittle of this work—Couches and Beds of the Greeks, Etruscans, and Romans—accurately describes its scope and contents. Miss Ransom has made an exhaustive study of her subject, giving a chronological 'Survey of Forms,' a discussion on 'Styles,' and a description of the materials used in making and furnishing the beds; she has also added a glossary of technical terms and very complete bibliography and indices. The volume is copiously illustrated and should be useful to students, but it may be well to note for their guidance that the bronze fulcrum ornament figured in Plate XIV, it has been withdrawn from exhibition by the authorities of the British Museum.

Supplementary Papers of the American School of Classical Studies in Rome. Vol. i. Pp. viii+220. With 18 places and 76 blocks in text. New York: Macmillan Company, 1905.

This is the first volume of an occasional publication, which is designed to receive papers of the American School at Rome, which are deemed unsuitable, for one reason or another, for the American Journal of Archaeology, the usual organ of the Archaeological Institute of American

The volume opens with an elaborate study by Messrs. Pfeiffer, Van Buren, and Armstrong, of the brick stamps, found in a short length of the Aurelian Well at Rome, which collapsed after a storm of rain, in the Autumn of 1902. Other papers deal with questions of topography of the Campugna, Greek and Christian sculpture, the text of Columella, and the chronology of the reign of Jalian. A paper on the mounds and other remains of Turkestan by the Director, Mr. Richard Norton, is also included, but its appropriateness is open to question.

Catalogue of Greek Coins in the Hunterian Collection, University of Glasgow. Vol. iii. Further Asia, Northern Africa, Western Europe. By George MacDonald. Glasgow: Maclehose, 1905. Pp. viii +800. With 30 plates.

This great work—great not merely in bulk and weight—has been brought to a conclusion, and we should have only congratulations for the author, the publisher, and the University of Glesgow, were it not that Mr. James Stevenson, by whose munificence the undertaking was made possible, has not lived to see its completion. In every way this volume is an improvement on its predecessors; carefully compiled as they were, they contained fewer additions to the science of the subject, apart from the publication of fresh material, than are to be found in this third volume. A careful study of the Seleucid series has enabled Mr. Macdonald to improve considerably on the classification; in the same way he has made somewhat clearer the arrangement of the Alexandrian, Cyrenaic, and Carthaginian coins. It is unfortunate that the Bactrian series was unrepresented in Hunter's cabinet, for Mr. Macdonald would perhaps have been able to diffuse some light in this dark corner of numismatics. The fine Roman collection at Glasgow will, we four, remain uncatalogued, unless the University can be induced to fill the gap created by Mr. Macdonald's removal to another sphere of work, and unless another Mr. Stevenson can be found to subsidize the publication.

Coin-Types, their Origin and Development. By George Macronald. Glasgow: Maclehoss, 1905, Pp. x+275, With 16 plates.

This volume represents a course of Rhind lectures which were delivered by Mr. Macdonald to a popular audience; but although they are so written as to be intelligible and interesting to anyone having a slight acquaintance with the Classice, they are entirely free from the slovenliness which characterizes most popular books dealing in the archaeological subjects. There is not a little in the book which the most experienced and learned numismatist will find useful and enlightening; while, as for the beginner in classical archaeology—not merely in numismatics—we can conceive of no better book to put into his hands. The title expresses the contents of the book very well. The author finds the oxigin of the coin-type in the budge or arms of the issuing authority; the theory, though not quite new, will doubtless be associated with his name in future, for he is the first to adopt it wholeheartedly, and he has proved it as completely as a theory dealing with such a question can be proved. He is to be congratulated on the moderation and fairness with which he has conducted the necessary controversy. The rest of the volume deals with the subsequent development of the coin-type, notably with the intrusion and gradual domination of the religious element. Some space—as much as is necessary, from the point of view of the book-is devoted to Roman coins; and in the last lecture something is said of mediaeval money, enough to indicate the lines on which the study of their types might be conducted. The plates and index are good

Der Blitz in der orientalischen und griechischen Kunst. Ein formgeschichtlicher Versuch von Paul Jacobsthal. Mit 4 Tafein. Pp. vi+60. Berlin: Weidmann, 1906. Price 3 m. 60.

A very careful and full analysis of the origin and development of the form of the thunderbolt (1) in Oriental (2) in Greek art. The author's thesis is that the lightning was represented in Babylonian and Assyrian art by the same means, or a modification of the same means, as were used to represent ordinary fire, i.e. two, then three zigzag or wavy lines. The Greeks took over this idea and transformed it, conceiving the lightning as a flower, in harmony with a widely prevalent conception of fire and light as a flower. An Ionia and a Helladic form of the thunderbolt are distinguished, and the parts played in the development by the addition of wings and the conception of the thunderbolt as a weapon are discussed. The thesis may be true, but its weak point is in the difficulty of proving that the representation of the thunderbolt by flower-like forms corresponded to a conscious idea of flame as flower; how far may it not have been due to a purely decorative instinct?

Phéniciens et Grecs en Italie d'après l'Odyssée. By P. Champault. Pp. 602. With Map. Paris : E. Leroux, 1906.

This is a work written in opposition to M. Bernet, to show that Phaeacia was Ischia, and the Phaeacians a mixture of Phoenicians and Eubocan Greeks. It is described by its author as a 'Geographical, historical and social study, on a New Method'; but the method is a very old one. It consists in taking the text of the Odyssey and ratiocinating upon it by the light of nature, without admisting any non-literary evidence. Of the archaeology of the Homeric and pre-Homeric ages the author makes no mention whatever. His lumination is often highly ingenious. He explains the portents, which marked Odysseus' arrival in Phaeacia, by volcanic phenomena of the most startling kind; he works Ischian topography into the Homeric by the sid of geology and seismology; he finds a matriarchate of Phoenician type in full force in Phaeacia; he brings the 'divine Homer' himself to Ischia, one fine day in the minth century, 'dans les bagages d'un convoi

gree, and persuades himself that Isohia and Scheris are identical tunnes. Of coursesverything in the careful topographical work, which the post proceeded to write on the spot in order to carry favour with the Phaescian-Phoenicians, fits M. Champault's theories a mercuille, and there are no discrepancies at all—a result eminently satisfactory to M. Champault.

Greece: from the Coming of the Hellenes to A.D. 14. [The Story of the Nations.] By E. S. Suuckaurana. Pp. six+416. Illustrated. London: T. Fisher-Unwin, 1905.

By way of apology for the appearance of another abort history of Greece, the author of this book points out that it is necessary to the completion of 'The Story of the Nations' Series, to which it belongs, and further, that it surves as an introduction to a future volume on The History of Greece subsequent to a.D. 14. The work has, however, a distinct value of its own, being an excellent and up-to-date summary of Greek History, Art, and Literature, written by an experienced scholar. It should be a boon to those who have not the laisure for prolonged study, and yet wish to know something of the results of recent research. The illustrations are good and, as a rule, well chosen. The least satisfactory feature of the book is the number of misprints, which ought not to be nearly so frequent as they are.

Beiträge zur Griechischen Rechtsgeschichte. Von Herneren Swobona. Weimar: Hermann Bohlaus Nachfolger, 1905.

It is no easy matter to disengage what is new in Prof. Swoboda's first sssay (pp. 1-42, Kritisches zur Achtung), a development of his article on the case of Arthmius of Zeigia in Archiol.-epigraph, Mitteilungen our Osterreich-Ungarn xxi, 1893, pp. 49 sqq., and at the same time a criticism of a recent work by P. Usteri (Achteny and Verbannung im griechischen Rechts, Berlin, Weidmann, 1903). In the Greek world outlawry seems to have gone out of use after the fourth century u.c., and no tolamble history of the early stages of the practice can be made out, not even at Athens. With regard to legal terminology Prof. Swoboda argues that originally, i.e. in the pre-Solonian epoch, the Athenian formula was arrang soros, or will angebusst (our ergolten) soin, equivalent in sense to arrang redsarse, er soil shar Bass, share Erests, steeben, which occurred in Dracou's laws, but, that, when dram acquired its later meaning of whole or partial loss of civic rights, capitis deminutio. other planers became necessary, e.g. first dripes and modelnes form, and at last simply modelnes гота. The sentence вушущих гота was a special form introduced in the Athenian empire in the fifth century, under which the person outlawed had to be surrendered for punishment to the authorities of the State which had outlawed him. The nature and conditions of the punishment are examined with reference to the ancient laws of Germany and Scandinavia, the principal difference noted being that in Greece the penalty was not inflicted for offences against private individuals, but only for what we should call political crimes, in particular attempts to overthrow the constitution and various forms of high treasur. Sentence of outlawry was passed in democracies by the Assembly, among the Macedonians by the army. An appendix discusses among other things the fate of Themistorles, and of Demosthenes and the other orators in 322 B.c. It is maintained that they were not outlawed but condemned to death by the Assembly in contemucian on an elegazzakia. The second and longer easy (pp. 42-132, Uchev die altyricchieche Schuldkurchtschaft) deals principally with the social and economic conditions of Attica in the age of Solon, and will encounter lively opposition. Starting from the code of Gortyn, and making free use of dubious analogies drawn from early Roman history the author contrasts the condition of the correctness acre, dentors who had voluntarily pledged their persons, with the condition of the revisagira, (udicab, judgment-lebtors, whom creditors had the right to sell into slavery outside Attica. In the next plane he distinguishes both these classes from the isripapen, who are compared with Roman elientes and defined as serfs bound to the soil and paying to their lords annually one-sixth of the gross produce of the land which they cultivated. Solon is made out a violent revolutionary, who not only abolished the amount law of debt, but cancelled all existing debts indiscriminately, not only swept away the status of serfdom, but gave to the former serfs the freshold of the ground which they tilled. That this view of Solon is diametrically opposed to the opinion of antiquity is not considered a fatal objection by Prof. Sweboda. He thinks the evidence but and treats with especial severity the account given in Aristotle's Considered of Athens.

Geschichte der lateinischen Kaiserreiches von Konstantinopel. By Ernst Gestand. Part L. Svo. Pp. 264. Homburg v. d. Hölle: Gerland. 1905. 6 m. 50.

This volume contains the first parties of a history of the Latin Empire of Constantinople, which is itself to form part of a general history of the Frank dominion in the Greek world The story begins just after the capture of Constantinople by the Crusulers (A.D. 1204), and we have a detailed account of the reigns (a.p. 1240-1216) of the first two Latin Emperors, Baldwin L. Count of Flanders, and his brother Henry. Gerland is already favourably known for his writings connected with the Franks in Greece, and the present instalment of his work will be welcome to all who are interested in media-val Greece and in the general interplay of influence between Eastern and Western civilization. The marmative is clear and graphic, and the references to authorities are much fuller and more eximustive than in any previous book on the same topics. The statesmanlike character of Henry has not, save Gerland, been hitherto sufficiently recognized : "seine Institutionen haben die Grundlage gegeben, auf der eich die Frankenberrschaft in Griechenland weiter entwickelt hat. The nuther no doubt reserves for the conclusion of his history of the Latin Emperors some general summing-up of the world-wide consequences of this startling irruption of Feadal lord, Venetism trader, and Latin ecclesiastic into the ancient domain of the Eastern Empire.

Macedonia: its Races and their Future. By H. N. Brailsford. Pp. xx +340.

Maps and illustrations. London: Methuen & Co., 1906.

This is an account of Macedonia as it is since the insurrectionary movements of 1903-4, written by a leading member of the Committee, who superintended the distribution of relief on the spot. Mr. Brailsford had land infimate relations with Greeks praviously, both during the war of 1897 and the latter stages of the Cretan rising; but in spite of that (perhaps, even, because of it), he makes short work of Greek pretensions to Central Macodonia. He shows himself well squipped so far as knowledge goes both of the ancient and the modern history of the region, and, on the whole, fair-minded. In fact it takes either ignorance or prejudice to find a pensant people, which has a claim to be called Greek in any but an official ecclesinatical sense, north of the Monastir railway. Mr. Brailsford has little difficulty in demonstrating that the Central Macedonians were not Greek in this time either of the Macedonian Kings or the Greek Emperors of Constantinople -the only two epochs in which it is may use to prove their national unity with Hellas. The author's essay-like treatment of the divers races and churches inevitably auguests comparison with another book, that of 'Odysseus'; but he handles his subjects well, and will reach an audience that has never rend Turkey in Europe. He tries hard to give the Turk his due and often succeeds, and his personal knowledge of affairs, like that of Smerdesh, makes him a valuable witness; but he might bear in mind more constantly that the programmes of reform, communicated by sophisticated Komitajia to interested Europeans, are always suspect, and that the desire of place and salary plays a large part in Balkan patriotism.

The Dioscuri in the Christian Legends, By J. RESDEL HARRIS, Pp. 64. Svo. London: C. J. Clay and Sons, 1903.

An interesting and ingenious little study of certain twin-saints of the Greek Calendar who seem to be connected with the Dioscari. These saints are chiefly Florus and Laurus, Protasius and Gervasius, Kastoulos and Polyenetes, and their festivals generally fall on or near the 18th or 19th of the month. It is also suggested that the writer of the Acts of Judas Thomas (i.e. the Apostle St. Thomas of Edessa, the twin-brother of the Lord) worked upon the legends of the Great Twin Brethren. The argument as to the star and crescent on the regal tiars on coins of Edessa is perhaps pressed too far, as a star or crescent are common ornaments on the tiarss (shewn on coins) of the Kings of Armenia, Persia, and Parthia. It may be added that apart from the evidence of identification in the particular cases examined by Rendel Harris, he is able to adduce the general testimony of Dion Chrysostom as to the long surviving belief in the Dioscuri; Kástop sa Holučevsky of Διός καίδες ευμάτθησαν και δεοί μέχρι εῖν κάσι δοκούσι διά τῆν δέκαμαν ἢν τότε έσχον. (Orut. 1xi. 11)

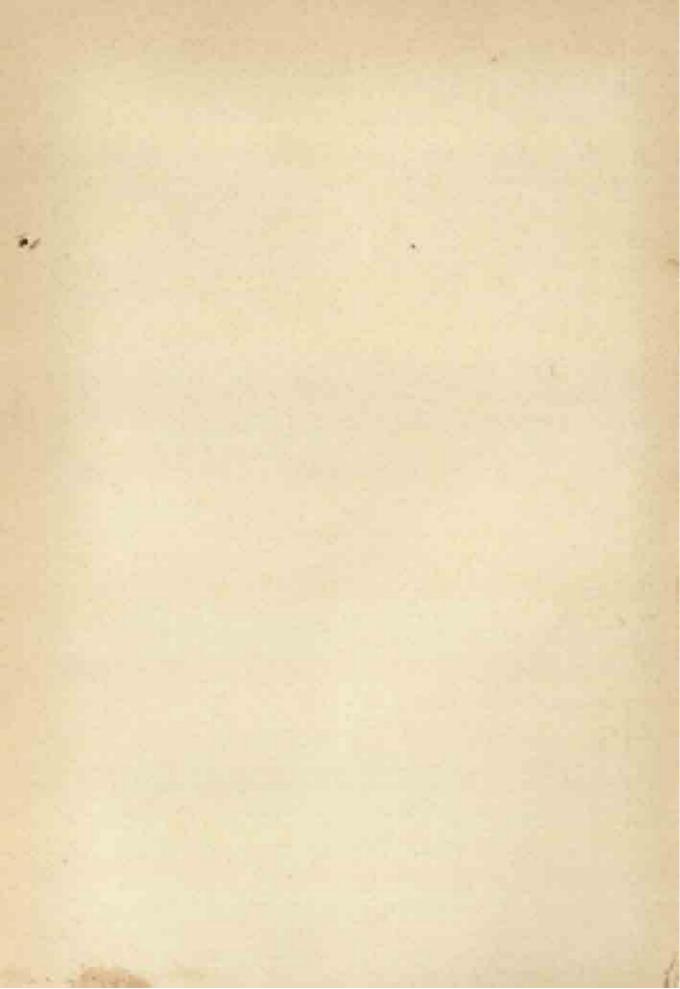
Die Antike und Wir. Lestures by Th. Zigninski, Translated from the Russian into German by E. Schognan, 8vo. Pp. 126. Letpsic; Dieterich, 1905, 2 m. 40.

A course of eight lectures delivered to the senior boys of the schools of St. Petersburg, on the relations of classical study to modern education and culture. The first four lectures deal with the educational value of Greek and Latin. The second four deal with the importance of antiquity as an element in modern religion, philosophy, literature, and art. The book is chiefly interesting to an English reader as treating of a familiar subject viewed from a distinctively Russian standpoint.

The following recently published books, among others, have also been received -

- The Museums and Ruins of Rome. By W. AMELUNG and H. HOLYZINGER. English ed., ravised by the authors and Mrs. S. A. Syrong. Vol. I. Pp. xxiv + 326, with 170 illustrations; Vol. II. Pp. xii + 183, with 96 illustrations and map. London: Duckworth, 1906.
- Anaximenes von Lampsakos. Studien zur ältesten Geschichte der Rhetorik. [Festschr, f. d. xlviii. Versamml. dentsch. Philol. u. Schulm, in Hamburg.] By PAUL WENDLAND. Pp. 104. Berlin: Weidmann, 1905. 2 m. 80.
- Aristotle's Theory of Conduct. By Thomas Marshall. Pp. xxi+578. Lemdon: Fisher Unwin, 1906.
- Greek Theories of Elementary Cognition, from Alemason to Aristotle. By J. L. BEARE. Pp. vii+354. Oxford: University Press, 1906. 12s. 6d. net.
- Les Phéniciens et l'Odyssée. By Vicros Bénand, Tome II. Pp. 630, 144 maps and illustrations. Paris: Colin, 1903, 25 f.
- Recent Excavations in the Roman Forum. By E. Buston Brows. Second ed. Pp. xvi+227. Illustrations and Plans. Lomion: Murray, 1903.
- Heinrich Brunn's Kleine Schriften, gesammelt von Hermann Brunn und Herneich Brunn. Vol. I. Pp. xi+277, with portrait and 65 illustrations; Vol. II. Pp. 532, with plate and 69 illustrations. Vol. III. Pp. viii+356, with portrait and 53 illustrations. Berlin and Leipzig: Taubuer, 1905, 1906.
- Comptes rendus du Congrès International d'Archéologie. Pp. 398. With Frontispiese and 33 illustrationa. Athens: Meissner & Kargadouris, 1905.

- A Catalogue of Zodiacs and Planispheres, originals and copies, ancient and modern, extant and non-extant, from 8.c. 1320 to A.D. 1900. By A. B. GERMADEL Pp. viii+176. London: Gall & Inglis, 1905.
- The Temple of Deir el Bahari. Part V. By E. NAVILLE. Pp. vii+13. Plates exix-el. Lendon: Egypt Exploration Fund, 1906.
- Platonis Opera. Recogn. J. Burner. Insunt Clitopho, Timasus, Critias seorsum Impressi a Tomo Quarto. [Script Class. Bibl. Oxon.] Oxford: Clarendon Press, 1905.
- Index Verborum Propertianus. By J. S. PHILLIMORE. Pp. 111. Oxford: Clarendon Press, 1906. 4s 6d. net. \*
- Architecture East and West. By R. Phené Spires. Pp. xviii+269. 116 illustrations. Lemiton Batsford, 1905.
- Primitive Athens as described by Thucydides. By J. E. Hannison. Pp. xii +168, With Frontispiess and 49 Illustrations. Cambridge: University Press, 1906.
- A Catalogue of the Sparta Museum. By M. N. Topp and A. J. B. Watz. Pp. viii +249. With 85 illustrations. Oxford: Clarenton Press, 1906.
- Die griechische Literatur des Altertums. By U. von Willamowerz-Monlikenponer. [Die Kulturder Gegenwart, beransg. von Hinneberg.] Pp. 236. Berlin und Lespzig: Tenlmer, 1905.
- Xenophontis Respublica Lacedaemoniorum. Ed. Ginus Pierinoni. Pp. v+62. Berlin: Weidmann, 1905. | m. 80.



### THE MODERN CARNIVAL IN THRACE AND THE CULT OF DIONYSUS.

My attention was called recently to an account by G. M. Vizyenos! of a Carnival festival celebrated in the district about Viza (ancient Βιζύη) in Thraca so remarkable that it seemed worth while to verify the author's account by a personal visit. This I was able to do at the Carnival of 1906, and the account below has been drawn up from my notes, supplemented by

this article, from which I quote everything of value.

Of the writer's good faith there is no doubt, and of almost all the points be mentions I had ocular confirmation. He was a native, not of Haghios Gheorghios, the village whose festival he describes, but of Viza itself, the chief place in the district, lying some two hours to the west. He left his native place while still a boy, and died at Athens in 1896, aged forty-two. The middle part of his life he spent in Germany, and he does not seem ever to have returned to Thrace. His account is therefore probably a description of the festival as it was in his youth some forty years ago, when modern conditions had affected the district even less than at present. He calls it Oi Καλόγεροι, και ή Λατρεία τοῦ Διονύσου ἐν Θράκη, and makes as many classical comparisons as possible. All these I have omitted, and drawn upon him only for matters of fact.

The town of Viza lies on and around the Acropolis of the ancient city, and some eight hours by road north of the station of Tcherkesskeni on the railway between Constantinople and Adrianople, and nine hours from Midhein (Salmydessus) on the Black Sea. It is built on the last slopes of the low hills that shut off the view of the sea, where these rise from the wide plain of Thrace. This is watered by the tributary streams of the Tenrus, said to be exactly the thirty-eight reckoned by Herodotus, and is studded with conspicuous tumuli, of the same shape but generally rather larger than those on the English downs. They are said to contain the bones of men and horses, and the iron and bronze fittings of a chariot have been found in

In the first and only number published of the Sopried Everyole, échains Samurinous enée Adheus Sopries 'Adexpérates, Afficus, 1897, to which my attention was first called by

Mr. F. W. Hashnek,

Details of his life are given in a book on the district. Through rip Bi(éra and rip Medens, and ZaShā s). Annidos, Constantinople, 1880.

such a tumulus and are now in the Museum at Sofia.<sup>3</sup> In date they hardly seem to be earlier than the beginning of our era, and many of them are a good deal later. A fair number of inscriptions are preserved in the modern town, four of which record names of kings and dynasts of Thrace, whose palace was at Viza.<sup>4</sup> The most conspicuous remains of this period are the fine walls (Fig. 1) that still stand on the western and southern sides of the Acropolis, now the Turkish quarter, and testify to its former strength. A gate, flanked by a pair of towers and surmounted by a quadriga is represented on two coins of Hadrian. A Roman altar, a base sculptured with cupids supporting garlands and heads of animals, and two early



Fig. 1.—THE WALLS OF VIEW

(hristian gravestones carry us further down, and the imposing church of Haghia Sophia (Fig. 2), now a mosque, shows that the place was of some importance in Byzantine times. Not far from Haghia Sophia is a conspicuous domed Byzantine building, also formerly a church, and within the Acropolis area (Kolch) are other less important ancient and Byzantine remains, the most interesting of which are numerous blocks which once formed the seats of a theatre, and a large vaulted structure of the Byzantine age, to which also belong several fine military towers. Viza is now a town of 3,500 inhabitants, of whom 2,500 are Greeks and 1,000 Turks, and the seat of a bishop and a Kaimakam.

<sup>#</sup> B:C.H. KKY, 1901, pp. 156-220.

<sup>&</sup>quot; To be published in B.S. A. xii.

In all the knot of Christian villages, of which Viza is the centre, the festival in question is celebrated annually on Cheese Monday (Τυρινή Δευτέρα). This day begins the last week of Carnival, which culminates on the following Sunday (Κυριακή τοῦ Τυροφάγου). Lent then begins with Pure Monday (Καθαρά Δευτέρα), when not only meat, as during Carnival, but also all kinds of animal food except bloodless molluses are forbidden.

The masquerade of this day was, even when Vizyenos saw it, no longer kept up in its fulness at Viza itself, but only in the neighbouring villages, of which he takes Haghios Gheorghios (Turkish, Evrenlu) as an example. At this village I also spent Cheese Monday, and during my stay of a week in



Fig. 2.—Church of Hagnia Sofilia, Villa, Thom South-East.

the district was able to supplement my notes by enquiries about the observances in other places.

The list of masqueraders is as follows :-

I. Two \*aλογέροι (Figs. 6, 7 and 8), who play the principal parts. Their disguise consists of a headdress formed of an entire goatskin without the horns, stuffed out with hay so as to rise like a great shake at least a foot or eighteen inches above the head, and adorned at the top with a piece of red ribbon. The skin falls over the face and neck, forming thus a mask, with holes cut for the eyes and mouth. Round the waist three or four sheep-bells are tied, and their hands are blackened. Their shoulders are monstrously

padded with hay to protect them from blows, which, from Vizyenes' account, they used to receive more freely than at present. He adds that the head-dress may be made of the skin of a fox or wolf, and that fawnskins were worn on the shoulders, and upon the legs goatskins. The essential and



FIG. R.-A KALOGHEROS AT VIRA.

indispensable elements, he says, are the mask and bells. It would seem from this that the resemblance of the actor to an animal was formerly a good deal more marked than at present. A little boy whom I saw on the Tuesday at Viza acting as kalogheres (Fig. 3), the only part there surviving,

wore a tall conical for cap and bells at his waist. He had no mask, but his face as well as his hands was blackened. In one of the villages the kalogheroi do not wear skins at all on their heads, but beehives. One of the kalogheroi at Haghies Gheorghies carries a wooden phallus (Fig. 4c), and the other a mock bow (Fig. 4b).

This bow (δοξάρι) is in general appearance rather like a crossbow, but is made only to scatter askes or powder, which are placed in a cow's born fastened to the end of the moveable piece that takes the place of the arrow. Vizyenos adds that the carrier of the bow is the leader of the two, and the other his servant and follower. I could observe no difference in their importance, though I shall bring reasons below for believing that his

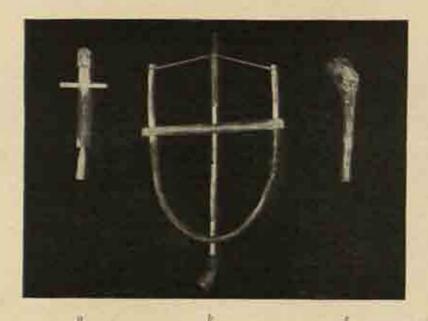


Fig. 1 - Crever. 6 Bow. e PRANCES.

statement that one plays only a secondary part is correct, and represents a less corrupt version of the play. In the drama with which the day closes, it is the carrier of the bow who shoots the other, and in this point Vizyenos agrees with my observations; as, however, he says that the second actor is the slayer, he seems to be in self-contradictory error in assigning the bow to the leader.

II. Two boys dressed as girls (Koρίτσια), called also in some other villages, according to Vizyenos, κόφες, brides (Figs. 7 and 8). These wear a white skirt and apron, a peasant woman's bodice open in front, and kerchiefs binding the chin and brow. A third kerchief hangs down behind, and from beneath it escapes a corded black fringe like finely plaited bair. They

<sup>2</sup> The frings of a kind of woman's sent to said for this propose.

check any liberties with knotted handkerchiefs weighted with a few bullets.

It is to be noted that the kalophere at Haghies Gheorghies must be married men, and the koritsia annuarried. Vizyenos tells us also that these four actors are chosen for periods of four years and that during this time a korftsi may be betrothed, but must remain unmarried, a father being able to refuse to allow his son to take this part on the ground that he is thinking of getting married (πανδρολογιέται). Of this I could learn nothing; the kulogheroi for 1906 had acted for more than four years, and the period seems quite unsettled. But the rule about marriage remains clearly fixed.

III. Next comes a third female character, the Babo, a word in general local use meaning an old woman. This character was not represented in the play I saw, but her place was taken by another female personage described below, the κατσιβέλα. The Babo herself still appears at other villages and until quite recently was seen at Viza, where she has now been forbidden by the authorities. She is described by Vizyenos as a man dressed as an old woman carrying on her arm a basket containing 'some absord object or piece of wood swaddled in rags, which she treats as a buby. Of this child she is the καιψομάνα, and the child (λικνίτης) is a seven-months child (έφταμηνίτικο παιδί) born out of lawful wedlock of a father whose name she does not know. This account there is no reason to doubt. The Babo's child, I was told at Vizu, was always regarded as bastard. Kawonara I understood to mean 'nurse' or 'foster-mother,' but Vizvenos says that the Babo regards the child as her own, and kindred words make it almost certain that the real meaning is 'unmarried mother, mother of an illegitimate child.' The word Man survives in the district, especially at Sammakov and Midheia, meaning a cradle, made as usual of wood and shaped like a trough. Further evidence for it at Viza is supplied by its use in a local version of the song of the 'Bridge of Acta/ printed by Lakidhis, Υστορία της Βιζόης, p. 126.

The lines are :-

Φήκα το σπήτι μ' άνοικτο και τὰ ψωμιά 'στο φούρνο, και το σαλό μου το παιδί στο λίκνι και κοιμάται.

I have left my house open, and the bread in the oven, and my innocent child in the craille sleeping, spoken by the mother who must leave her home to be killed and buried beneath the bridge that it may be firmly founded. Auxuito means to rock the cradle, but \(\lambda \text{irrys}\) was explained to me as meaning, not the baby, as Vizyenos gives it, but the person who rocks the cradle. For this latter meaning the word should, however, be exytone, and it is likely that my informant read the word wrongly, and that Vizyenos is making no error

<sup>\*</sup> Capseddu \* Midchen, from Boya (G. Meyer, Newsy. Studies, iii. p. 29 and sugakar & edurar réares és adeprendar, from Enspailers (Zaypadrios Ayar, I. p. 823).

The meanings nurse and unmarried

mother, mother who is not a wife' are not so far apart but that the word may bear both

<sup>\*</sup> Lakidhis explains saxd as mouning pape, "innecent."

in recording \$\lambda\_{\text{invirys}}\$ as a genuine local word for a baby in a cradle. In any case the use of derivatives of \$\lambda\_{\text{invir}}\$ in the sense of cradle is certain. It is only at this festival that a basket is used as a cradle, and even then not invariably. The Babo at Viza used to carry a piece of tile for this purpose. \$\lambda\_{\text{invi}\text{in}}\$ has also its usual meaning of winnowing, and \$\lambda\_{\text{invident}}\$ means a winnowing fork. Nowhere else in Greece have I found any evidence for these words used of baskets or cradles."

IV. The κατσιβέλου, or Gipsies, dressed like the Babo in miserable rags. Of these Vizvenos says there are three or four, all apparently male, though elsewhere he incidentally mentions the female κατσιβέλα. I saw two only, man and wife, κατσίβελος and κατσιβέλα. (Figs. 5-8.) They carried saplings some ten or twelve feet long and their faces and hands were blackened. The latsiceles had no other disguise, but his wife wore a woman's coat and on the head a kerchief and a little false hair. When the actors were dressing I was told that it would be the kutsivela who would carry the basket (καλάθι) and the baby, and on my asking where the basket was, he ran off and got a rough basket with a little wool in it to make a bed, and, breaking off a piece of stick, put it into the basket and nursed it, and played with it as if with a baby. When the actors began to perambulate the village, this was quickly dropped, and the carrying of the buby seems just dying out at Hughios Cheorghios, where the katsivele has partly taken the place of the Babo, and, as being also an old woman occasionally her name as well. The doll shown in Fig. 4a was made for me at Viza to be exactly like the figure that the Babo there used to carry.

V. The last characters are the Policemen. These are two or three young men carrying swords and whips, with embroidered kerchiefs tied round their fezzes. One of them carried also a length of chain, for making captures. The name I heard for them was ζανταρμάδες, i.e. gendarmes, but Vizyenos calls them ζαντιέδες, καυρουτζήδες, οι φύλακες.

Lastly a man accompanies the others, playing on a bogpipe (γκέντα ψάα).

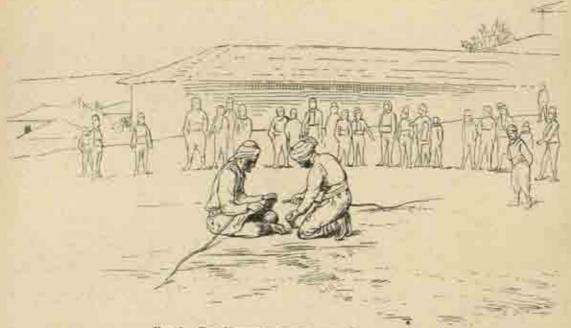
The masqueraders get ready in the morning and spend the day in visiting each house in the village, receiving everywhere bread, eggs, or money. The two kategheroi lead the crowd, knocking loudly at the doors with the bow and phallus, and with the karitaia generally dance a little hand-in-hand, before the housewife brings out her contribution. They are followed by the katsirelos and katsirelo, who are especially privileged to scare fowls and rob nests. In general anything lying about may be seized as a pledge to be redeemed, and the karitsia especially carry off babies with this object, and occasionally capture a man with their handkerchiefs. A recurring feature is

The neighbouring district of Seminia Ekklisies (Ψάλτης Θραμικά, μ. 43),

<sup>\*</sup> I am important whether the modern pronumeration does not as commonly demand  $\chi$  in these words instead of  $\kappa$ . It sentainly been in

an obscene pantomime between the kalsivdos and his wife on the straw-heaps in front of the houses.

By the afternoon no house was left unvisited, and everybody, men and women, gathered round the open space in front of the church at the top of the village. Here the drama proper is enacted. It began with a hand-in-hand dance of all the characters, the zandarmadhes brandishing their drawn swords. The kalogheroi then withdrew, leaving the field to the gipsy smiths, the kaloiveles and his wife. These sat on the ground facing each other, and the kaloiveles pounded on the ground with a stone, whilst the kaloivele lifted her skirts up and down. This is understood to be a pantomimic representation of the forging of a ploughshare, the man hammering like a blacksmith, whilst the fanning with the skirts represents the action of a pair of bellows.



For 5 - The Kathevelor makes othe Proconsideral

and is represented in Fig. 5, in which the katsixela is seen pretending to work the bellows on the left, and her husband apposite. At this point, according to Vizyenos, the Babo's child begins to grow up, and she finds that το μωρό δέν χωρεῖ πλέον εἰς τὸ καλάθι, The baby is getting too big for the basket, and, together with a buge appetite for meat and drink, he begins to demand a wife. This, according to Vizyenos, is followed by the chief katogheros pursuing one of the kovitsia and the celebration between them of a mock marriage, parodying the Greek rite of crowning the bride and bridegroom. The part of κουμπάρος, or best man, is taken by the second balegheres. I saw note of this, but it was understood that the kevitsia were the wives of the katogheros, and I was informed that in the adjacent village of Dzakle such a mock

marriage is performed with old baskets instead of crowns and the burning of dirt for incense. But both there and also at Haghios Gheorghios both kalogheroi are married, otherwise, indeed, the presence of the second karitsi, except perhaps as a bridesmaid, is hard to explain. But the account of Vizyenos, as the comparison made below with the Skyros and Kosti festivals indicates, represents a clearly more primitive tradition.

Presently the first kalogheros was seen samutering about, or standing the phallus apright on the ground and sitting upon it. Meanwhile his commute was stalking him from behind and at last shot him with the bow, at which he fell down on his face as if dead. After making sure that he was really dead, the slayer traced a line round the body, as if to mark the size of the grave needed. He then pretended to flay (γδέρνω) the dead body, using for

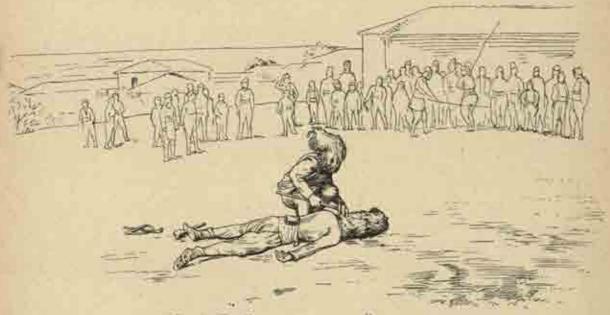


FIG. 8:-THE FLAXING OF THE DEAD KALOGHEROW.

the purpose a kind of pick (chelomyi) is and also making a show of sharpening a stick, as if it had been a knife. A wooden knife is sometimes used. Of this flaying Vizyenos says nothing. It is represented in Fig. 6, in which the bow and phallus are lying on the ground on the left, and in the background on the right the hadricales and his wife appear with their long wands. The padded back of the dead masker should be noted. Whilst the halogheres is thus lying dead, one of the hardens in the character of his wife laments for him with load cries, throwing herself across the presente body, as is shewn in Fig. 7. The harveless and his wife also form part of the group. In this lamentation Vizyenos says that the slayer and the rest of the actors join

<sup>&</sup>quot; A greeted form of the Turkish culture.

making a regular parody of a Christian funeral, burning dung as incense and pretending to sing the service, and finally lifting up the corpse to carry it away. After the lamentation of the foreits the dead man suddenly came alive again and got up, thus ending this part of the play.

Then the katswelos and his wife repeated the forging of the ploughshare, this time hammering on a real share. At some time in the play the katsivelos usually rides on a donkey, but this was omitted owing to the barl weather. Snow had been falling all day, and perhaps the extreme cold tended to curtail the details of the performance. Vizyenos also mentions some rough play with a donkey, but puts it down to the kalogheroi. At about this point all the implements used were thrown high into the air with cries, 'Kai τοῦ χρόνου,' 'Next year also!'



FIG. 7.—THE DEAD KALOGHERON LARRYZED BY HIS BRIDE.

The share being supposed to be finished, a real plough was brought forward, and the mockery seemed to cease. Instead of oxen, the koritical were yoked and dragged it round the village square twice contrary to the way of the sun. One of the kalogheroi was at the tail of the plough and the other guided it in front, whilst a man walked behind scattering seed from a basket. This is shown in Fig. 8, with the katsiceles and his wife walking in front. The man with the seed was not included in the photograph from which the drawing was made. The katsiceles and katsiceles were then yoked and made a third circuit, the kalogheroi still guiding. Vizyenos says that the kalogheroi draw the plough, in which he seems to be thinking of the practice at Viza, where until recently this custom was still kept up and it was so

drawn. But at Haghios Gheorghios it seems always to have been drawn by the koriteia, for a native now resident at Viza, who had not seem the festival for ten years or more, corrected Vizyenos' report on this point. The cries whilst the plough is being drawn I take from Vizyenos: Νά γείνης (sic) δέκα γρόσια τὸ κοιλὸ τὸ αιτάρι! Πέντε γρόσια το κοιλὸ ἢ σίκαλη! 'Γρία γρόσια τὸ κοιλὸ τὸ κριθάρι! 'Λμην, Θεὸ μον, γιὰ νὰ φᾶν οἱ φτωχοί! Ναί, Θεὸ μον, γιὰ νὰ χορτάση ἡ φτωχολογία! May wheat be ten prastres the bushel! Rye five piastres the bushel! Bartey three piastres the bushel! Amen, O God, that the poor may sat! Yes, O God, that poor falls be filled!

This was the end of the play, and the evening was spent in feasting on the presents collected during the day.

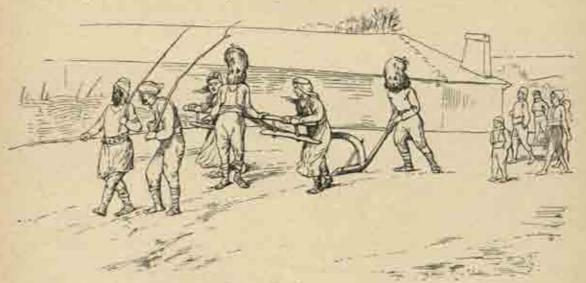


FIG. 8.—THE PRODURING:

Such is the festival celebrated every spring by the Greek community in these villages. Before examining it more closely it will be convenient to notice some other similar customs.

A kindred festival is observed on the same day at Kosti, in the very north of Thrace, near the Black Sea and the Roumanian frontier. I take an account of it from a pamphlet published at Constantinople. A man, called the χώχωστος οτ κουκηρός, the dressed in sheep or goat skins, wearing a mask and with bells round his neck, and in his hand a broom of the kind used for sweeping out ovens, goes round collecting food and presents. He is addressed as king and escorted with music. With him is a boy carrying a wooden bottle and a cup, who gives wine to each householder, receiving in return a gift. They are accompanied by boys dressed as girls. The king

<sup>&</sup>quot; Heat two dimentionalises and Salass times supulfifies inflower and spinitificate and "A. Xeopsourgistou, Constantinopie, 1873, p. 22.

<sup>11</sup> Коймеров, elder partdouarns, Vákrys, Өрц-

then mounts a two-wheeled cart and is drawn to the church. Here two bands are formed of married and unmarried men respectively, and each tries to make the king throw upon themselves the seed which he holds in his hands. This he finally easts on the ground in front of the church. He is then thrown into the river, stripped of his skin clothes (δλόγυμιος), and then resumes his usual dress. The throwing into the river is clearly a rain charm.



Fro. 9. —Mangunatur rnou Saynos. (From B.S.A. xl.)

The custom at the Skyres Carnival described by Mr. Lawson, and again by the present writer, is closely allied, though much less of it is left. There is no drama, but only the going about the town of sets of three masqueraders, the Old Man (\(\gamma\text{plos}\)) (Fig. 9) \(^{14}\) with bells and skin mask and,

<sup>\*\*</sup> E.S.A. VL p. 128. \*\* B.S.A. VL p. 72.

<sup>&</sup>lt;sup>14</sup> Reproduced from E.S.A. at p. 75, Fig. 1.

These observances fall into line with the numerous spring festivals of the spirit of vegetation, of which Dr. Frazer line written at length in the Golden Bongh. The king and the rain charm by wetting at Kesti and the marriage, death, and resurrection at Viza, are unmistakable marks of this almost worldwide group of customs. The prayers during the ploughing ceremony for an abundant harvest show that this is, or was regarded as a magic rite to make the crops grow as in the cases collected by Dr. Frazer, where it is especially the work of women. The dancing and leaping of the principal actors, so conspicuous at Skyros, fall, like the jumping of the Salii at Rome, under the same head, and the protective padding of the back seems to point to a custom of beating the victim to be slain, and if, as seems probable, the beating of the Roman scapegoat Mamurius Vetalus was inflicted by the Salii, an interesting parallel is suggested by the padded backs of the katsicoloi.

But such a custom in Thrace suggests also a survival of the worship of Dionysus, upon which recent researches have thrown so much light. The circumstances are favourable to such a survival in a Greek community occupying the old city of the kings of Thrace, and surrounded and isolated by later elements of population, Bulgarian and Circassian.

Pieller, Rein durch alle Theiledes Konsigreiches Griechmiand, 1841, ii. p. 83.

<sup>20</sup> Golden Bough, L to 98.

<sup>11</sup> Ibol. L ja 86.

who is at that point of the play just about to take one of the keritsia as his wife. A marriage is known to have been a part of the cult in Crete and at Athens, where it took place in the bouledsion, a place connected with the solemn ploughing ceremonies of Athenian religion.18 That a phallophoria formed part of the worship of Dionysus has been clearly shown.19 The death and the mimetic flaying and resurrection follow in due order. But what is to be said of the katsireloi, the gipsy smiths who make the plough, and of the almost indistinguishable actor who kills the Dionysus? The classical Dionysus was killed by his worshippers and attendants the Titans, who also were smiths, so it may be hazarded that the second actor and the katsireloi represent characters originally the same, and these simply the worshippers of the god. The identification of the Satyrs with the Satrae of Thrace, and of the Titans with the worshippers, who first killed and then lamented the god. shows that the second actor and the katsiveloi have this common origin and are to be compared with the Kouretes and Salii. The significance of their rods in the light of the beating of the Roman scapegoat by the Salii has been alluded to above, and whilst Vizyenos asserts that the kalogheroi beat one another, it may be suspected that originally a beating was inflicted upon the first kalogheros by the second and the rod-bearing katsizoloi. In later times, when the gipsies came to be regarded as the typical smiths, the making of the ploughshare, the special task of the god's typical devotees, was assigned to them, whilst the part of the slayer has by an odd confusion been given to a duplicate of Dionysus, whose later origin is indicated by the parallels at Kosti and Skyros, where it is possible that once the Frank killed the masked actor.30 The obscene gestures of the gipsies seem likely to be a survival of the marriage of the principal character. The use of such acts as a fertility charm, whether the connexion with the straw-heaps be accidental or not, is noticed by Dr. Frazer."

The disguise as an animal and, although all sorts of skins are used, presumably from his drawing the plough, as a bull, fits with the tauromorphic form of the Thracian Dionysus. The death and flaying of the kulopheros thus appears as the descendant of the practice of killing and eating the bull-god of vegetation, possibly once as a human victim.

The giving of wine by the king at Kosti is an act worthy of the wine god, the more remarkable as such masqueraders are generally more apt to take than to give. It reminds us of the miracle of St. George of Skyros, who on his festival multiplies the wine poured into a jar sunk in the earth in front of his church.

<sup>&</sup>lt;sup>19</sup> The Honkoleiou and the Bourygiun, the field of the sacred on ploughing, were in close commerciae. Harrison and Varrall, Mythology and Managemia, p. 100.

<sup>&</sup>lt;sup>34</sup> J. E. Harrison, 'Myetica vannus Iacchi,' J.H.S. 8200, p. 322.

<sup>2</sup> It is possible that the assemil balanheror is the draine king of the coming year, who

kills his producessor, just as at Nemi each king was killed by his successor. But the single actors in the parallel Greek observances make the view followed in the text, that the second Lalogheres is later, more likely.

<sup>#</sup> Golden Bongh; 11. 15. 205 agg.

<sup>21</sup> H.S. A. xl. p. 75.

Common to all these festivals is the use of bells, whose prophylactic nature has been shown by Mr. A. B. Cook. Especially to the point bare are the clashing shields of the Salii, compared by Dionysius (II. 70) with the Curetes, of which Warde Fowler says: 'The old Latins believed that the spirit which was beginning to make the crops grow must at this time (March 1st) be protected from hostile demons in order that he might be free to perform his friendly functions for the community.'

In view of the resemblance of these festivals to one another, the history of the populations of Skyros and of this part of Thrace is of importance. The subject is obscure and I am indebted to Dr. Clon Stephanos for a reference to a contemporary authority 25 from which we learn that in 1645 the Venetian Foscolo transported the inhabitants of Skyros to Corfou. Thus it appears that the present inhabitants have hardly been there more than two hundred years

If the island was thus depopulated, there are some indications whence the new inhabitants came. A study of the modern dialect of the town of Saranda Ekklisies, about nine hours north-west of Viza, has recently been published,26 in which the writer points out that it varies from the norm of the Northern Greek dialects as laid down by Hatzidhakis," that in unaccented syllables e and o change to i and ou, whilst c and ou disappear, in only being subject to the latter change. I noted the same peculiarity in the almost exactly similar dialect of Viza. From this, and from certain points of resemblance to southern dialects, the writer suggests that the population of this part of Thrace has come from some southern region since the fifteenth century. Hatzidhakis assigning the beginning of the differentiation of the Northern and Southern dialects to that period. But the resemblances on which he relies are very slight, and the point that seems really remarkable is that as regards this vowel-weakening the dialect of Skyros stands in exactly the same position as these Thracian idioms.38 Before drawing any certain conclusions, it would be necessary to have a more extended knowledge of the modern dialects than the material at present available admits. But it seems at least a plausible view that the vacancy created in Skyros by Foscolo was filled by emigrants from Thrace, bringing with them this festival

It may also be noted that the native embroidery of Skyros has nothing in common with that of the southern islands, whilst it is almost indistinguishable from that of the northern regions to which the dealers give the general

The Gong at Dodoes, LHS axil.

<sup>&</sup>quot; B Ramon Festivals, p. 41.

The reference is to a passe on Cretan history of which an analysis is given in Table sorpares where EARAS, 6x8 Kapp. N. Zaffii. Athena, 1860, pp. 225-295. This deportation of the Skyriana is narrated on p. 265.

D Trainting B. Thirton, Operical, Crist Makken map: tod ykarrings laid parter the tokant Separte Earks. com, Athens, 1905.

Elaletteny in die Neugrisch. Grammucht, p. 842.

This and some other points in the disject of Skyres I noted during a visit in 1905.

name of Jannina. It thus appears that whatever evidence we have tends to connect Skyros with the north, and thus to bind together this closely allied group of Carnival observances.

R. M. DAWKINS.

I owe to Mr. Bosanquet the following note on a custom which be witnessed at Tripolitza in the Peloponnese. He writes that it is an old custom in this place for the boys to run round the town at sunset on the last day of February, clashing bells, and with especial vigour round any lame person they may meet. He saw the troop of boys brandishing bells, or with bells round their waists, headed by a lame boy, who carried no bell, but swung himself along at a great pace with the help of a stick. Asked what they were doing, they said, Βγάλλομεν το φλέβαρο, or τὸ κουτσοφλέβαρο. Lame Pebruary), or διώκνομεν το κουτσοφλέβαρο. Lame people are treated as personifications of the lame mouth. Mr. Bosanquet suggests that contact with some such custom may have helped in Skyros to obliterate the other features of the Carnival play, and to generalise and emphasize the bell-ringing element.

### Note in addition to Note 7, p. 196.

With the Balo compare the ancient Baulo (Clem Alex. Protrept. ii. 20).

With the derivation of the meaning 'mother of an illegitimate child' from 'maiden-mother' compare the Lacedaemonian parthenio.

In Zagori in Epeirus καιψο- is used as a prefix to the names of unlacky persons, Καιψαλέξης, Καιψαχρήστος, etc. See Kretschmer, Der heutige Lesbische Dialekt, p. 387.

R. M. D.

# NOTES ON A RECENTLY EXCAVATED HOUSE AT GIRGENTI.

This house, known locally as the Casa Greca, was partially excavated about two years ago at the private expense of the owner of the land; it lies on a level site to the east of the road leading from modern Girgenti to the temples, directly opposite the church and gardens of S. Nicola, and a short distance north of the Temple of Concord.

For the most part, the ground has here risen about four feet since the Greek period, and the existing remains present a complete horizontal section of the house up to that height, formed by the lowest drum of the columns and from two to four courses of masonry in the walls.

It is unfortunate for the elucidation of the plan that the excavation has not been carried further north, as this would obviously have disclosed additional parts of the building and might have rendered it possible to define its full extent.

At present the house is entered from the west side of the peristyle, where, owing to a fall in the ground level, no indications of a boundary wall now remain.

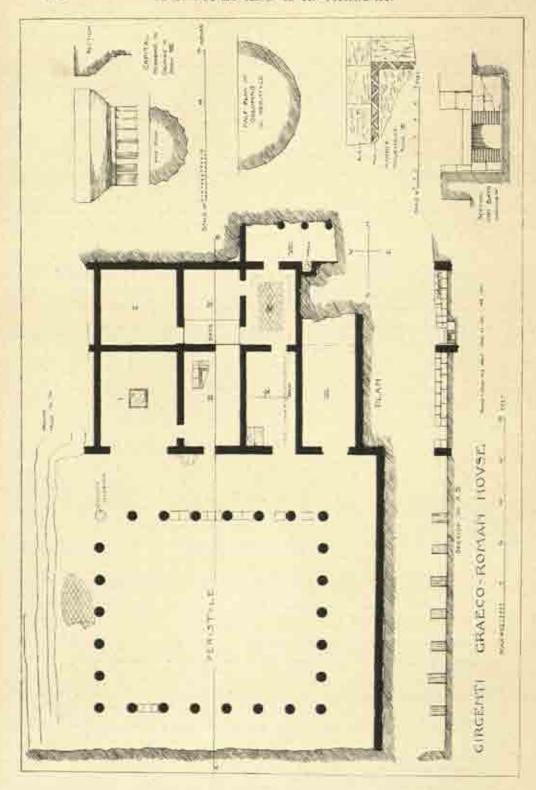
I. The Peristyle.—With one exception the columns are all in situ, with drums of slightly varying height: they are polygonal on plan, with twenty flat sides corresponding to the flates of the Doric column.

Like the rest of the masonry throughout, they are cut from blocks of the brown porous Girgenti stone, which in the case of the temples was invariably coated with marble cement.

Between the columns ran a course of flat stones forming a kind of plinth, and the square holes cut in the shafts indicate that a railing or balustrade separated the central area from the peristyle proper. A few of these plinth stones are still in position, and on the west side there is a small section of rough tesselated pavement with a lozenge-design in white spots on a red background.

The boundary wall on the east side contains some large blocks of stone, one measuring 6 ft. 2 in × 2 ft. 5 in × 1 ft. 10 in.; the masonry is not very well finished, and as a rule is laid in courses of fair regularity about 18 in, high.

In this wall is embedded a capital belonging to the columns in Room VIII., but unfortunately there are no remains of the order of the peristyle except the drums of the columns.



Room I.—Should perhaps be more properly regarded as a covered recess attached to the peristyle. The opening is too wide for a door, and there is nothing in the pavement to point to the removal of any part of the front wall which might have formed a doorway.

In the centre of the floor there is a square opening 3 ft. 10 in across edged with a narrow stone curb and now filled in with earth. It was not possible to ascertain whether this covered a stone pavement at a lower level, but in any case it was obviously the hearth.

The rest of the floor is covered with a white tesselated pavement laid in plain lines.

Room II.—Communicates only with IV. The floor is of beaten earth, raised several inches above the general level over a low basement, possibly some kind of hypocaust.

Room III.—The entrances from the peristyle and Room I are very narrow (only 2 ft. 9 in across) and show no provision for doors: a wider opening leads to IV.

The floor is the most elaborate of the whole series, and consists of an outer border of white tesselation as in I., and a centre formed of pink and blue slabs of veined marble, of which one corner remains intact.

Room IV.—Contains a bath. This is sunk about I ft. 10 in, below the general level and lined with 11 in, of cement smoothly finished on the outer face, and rounded off at the angles.

It communicates with the basement under II through an opening covered by a stone slab, and faced with red 'tegulae' about 9 in, square laid with very thick mortar joints according to the Roman method.

The rest of the room has a white tesselated pavement.

Room V.—Has a wide opening to the peristyle. In the S.W. corner two large slabs of blue veined marble are let into the floor, which is otherwise roughly tesselated in red, with a slight fall to three shallow gutters meeting in a circular drain carried down through the floor. Unless the room was open to the sky, this is evidently not a rainwater outlet and might point to the use of the room as a kitchen.

Room VI.—Has four doorways, and a tesselated pavement of rather more elaboration with a white design on a red background.

Room VII.—Has the only example of a doorway with 'reveals' on the jambs for the reception of a door: the opening is also of greater width than most of those leading from room to room.

The floor is of beaten earth, and the dividing wall at the end has now disappeared, but its existence may be traced in the foundations.

The wall between V. and VII. curves downwards to the centre in a way which recalls the curving walls of the Egyptians, variously explained by Choisy and others. The curve is here so pronounced that it cannot be due merely to settlement, but must have been taken into account when the courses of masonry were set out.

Room VIII.—A portion of the Atrium. As the excavations have here ceased, the extent of the colonnade cannot at present be determined. The three columns exposed are considerably smaller in diameter than those of the peristyle, and have twenty flutes, properly executed. A capital belonging to one of these columns is embedded in the eastern wall of the peristyle and shows considerable refinement of outline, allowing for the fact that the final surfaces would be worked on the marble cement facing. The echinus is thoroughly Greek in its curve, and below the annulets occurs the typical Sicilian hypotrachelium, in this case a dat surface, but more usually cut back into a deep hollow as in some of the Selinus capitals.

The lower part of the last column to the west is covered with stucco in such a way as to fill in the flutes and bring the outer surface of the shaft to a plain cylinder, and this was painted a reddish crimson of the tone familiar in Roman domestic work.

This column in itself is enough to prove that the house was occupied at two distinct periods, in the second of which architectural detail was sacrificed in order to obtain a flat surface for painting.

On the south side a recess in the wall contains a well or cisters: the cover stands about two feet above the floor and has a circular opening.

The general disposition of the house shows only the most rudimentary system of planning. The rooms are mainly on suite and there is an entire absence of passages. The peristyle could only be reached by passing through at least one pair of rooms, and the extension on the west side, as shown by existing fragments of wall, would evidently consist of two more rooms,

A comparison of the plan with that of Dörpfeld's bouse at the Peiraeus shows several points of similarity, notably the cistern in the Atrium and the paved recess opening from the peristyle, in this case, however, without the bearth.

RONALD P. JONES.

#### NOTE.

At Mr. Ronald Jones's request I add a note on the archaeological aspects of the house, of which he gives an architectural description.

Since he does not venture on any definite estimate of the date of the house, it would be very rash for me to do so, merely from his drawings; but it seems clear that he is justified in his inference that the house shows two different periods of construction, the one Roman and the other pre-Roman. It is not easy, from the present data to distinguish what belongs to each period respectively, though the bath, for instance, and the later coating of the

I was informed that this cistern communicates directly with flor Bath in Room IV., but

it was not possible to wordy this at the time.

4 400, Moth, ix. Pl. XIII.

columns in Room VIII., clearly date from Roman times. The general plan of the whole does not seem to have undergone any essential alterations.

The only satisfactory evidence for the date of the earlier period of construction is offered by the Doric capital from the columns in Room VIII. Mr. Jones's drawings show that the profile of this capital is of a refined and delicate curve, worthy of the best period of Greek architecture. Such a profile would probably, in Greece imply a date not later than the fourth century; but it is possible that the best artistic traditions may have been preserved in Sicily to a later date. The type of the capital, with the flat band mand the head of the shaft, occurs in Italy; examples quoted by Mr. Jones in a letter are those in the Forum at Pompeii and in the temple at Cora. In the latter, the band is much broader, the echiuus appears to be quite flat, and the proportions are less satisfactory; the temple is assigned by Spiers and Anderson 1 to the time of Sulla. The capitals from the gariier portion of the colonnade of the Forum at Pompeii have more resemblance to the one in the house at Girgenti; these were erected by the quasstor Popidius, and are pre-Roman; according to Man + they probably belong to the second half of the second century B.C. In the Pompeian colonnade, as in the large peristyle at Girgenti, the lower parts of the columns have flat flutings; the complete fluting in Room VIII, is of course earlier in character.

We seem then to be justified in assuming that the house at Girgenti is at least pre-Roman in its earlier construction; and therefore that any comment on its plan must be based on a comparison, not with Pomperan houses, but with Greek houses such as those of Priene or Delos, or with the somewhat confusing example from the Piracus in which Mr. Jones finds the nearest analogy. I think therefore that it would be wiser to avoid the term atrium, as applied to Room VIII., at least so far as concerns the earlier period. It is of course unfortunate that the excavation has not been carried further, and the incompleteness of the plan makes it all the more difficult to explain. The relation of the two courts, for example, is far from obvious. In the only known houses of Greek type that have two courts, these have been produced either by joining together two houses originally separate, or by building another court on to an earlier and simpler house." It is possible that one of these two explanations may apply in this case also, but we must remember that Vitruvius describes the Greek-or rather the Hellemstic-house as having normally two courts, one for family life and one for entertainments; and this Sicilian example may represent the type he describes. The most interesting feature is the deep recess opening out of the north side of the peristyle numbered as Room I, and containing a hearth in the middle of the floor. Such recesses, in a more or less corresponding position, are common in the Delian houses, and may be a survival of the original pastas but in no case except this is a hearth preserved in one; the matter is of considerable import-

<sup>&</sup>quot; Architecture of Greece and Rome, p. 145.

<sup>·</sup> Pompeit tr. Kalmy, p. 5tt.

<sup>\*</sup> s.g. Petene, house, xxxiii, p. 297.

e.g. Composi, the house of Sallnat, Man-Kolsey, p. 277

ance, as the presence of the hearth is a strong confirmation of the identity of this recess with the exedra mentioned by Galen in the primitive house as facing the door of the court and containing the hearth. A hearth is found in one instance at Priene in the corner of the porch of the chief room, in a similar position in the house.

There is ample material for speculation in other matters converted with the house at Girgenti; but in the present state of our knowledge it is perhaps

wiser to go no further.

E. A. GARDNER

File Literaturio E.B.

Prima, p. 295.

#### GREEK BOXING

# [PLATES XII., XIII.]

THE boxing of the Hellenic world even in the fifth century a.c. could boast an antiquity and renown to which modern pugilism can offer no parallel. The noble art was associated with some of the most famous names of the heroic age, including even kings and demigods, so that the opprobrium which has become attached, perhaps unjustly, to the term 'prize-fighter' was precluded from the titles of the Greek champions. The antiquity of the sport is shown by the vivid descriptions of Homer and the place assigned to it in the Funeral Games, while a fragment of a relief showing a boxer armed with Ιμάντες discovered by Dr. Evans at Chossus carries us back to a remoter past.1 In historic times especially in the earlier period we find the Ionians were the chief boxers and supplied most of the champions. The Dorians. especially the Spartans do not seem to have looked upon pugilism with much favour, although some victors are known to have come from the Peloponnesus. In the fifth century however, Rhodes, Aegina, Areadia, and Elis secured the greatest number of victories at Olympia in boxing and pancratium. This antiquity of boxing must have given the fighting men of the classical period the advantage of a rich store of accumulated experience and ringeraft, a fact which has great practical importance when we remember the different theories and tactics from which modern boxing has been evolved. The style of a well-trained pugilist is no more that which naturally suggests itself than the lunge of the modern fencer is the mode of attack instinctively employed by a novice. The Greek method of boxing, however, seems to have been surprisingly conservative: during historical times it changed in detail, especially in matters of equipment, but the Greeks having once chosen their style seem to have adhered to the same principles throughout and to have carried them to their logical conclusion. The reason of this is probably to be found in the fact that when the Greeks were first confronted with the practical difficulties of attack and defence in the ring they resorted to arti-

Amunit of British School of Athens, 1900. 1901, p. 95.

<sup>4</sup> Kronse, il. 766.

<sup>\*</sup> See Oxyrhynchus papyrus, H. 222; C. Robert in Hermon, Vol. xxxv. Part I. pp. 141-195.

ficial remodies instead of learning how to use their fists. In the earliest contests of which we have any evidence strips of leather were wound round the knuckles and forearms of the combatants to prevent the fists from puffing and the arm from being broken, as it easily might be in round or downward strokes. These thougs, called simply 'μάντες in Homer, and subsequently named μειλίχαι to distinguish them from the weapons of later days, can scarcely be regarded in the same light as modern boxing-gloves. It is true that they seemed mild in comparison with μύρμηκες or even the later 'μάντες, but we cannot accept the assumption of Dr. Krause and others that they actually deadened the blow of the fist. Professional pugilists seem to agree that fights of the present day in which very light gloves are used are more severe than if bare fists were allowed: the gloves have not enough publing to make any appreciable difference, while they prevent the knuckles from swelling and deadening the blows. This must have been the case to an even greater extent when strips of leather were employed.

When once the μειλίχαι were officially adopted the practice of round hitting was confirmed and subsequent developments tended to make the thougs harder and heavier, till we find the σφαῖραι and μυρμηκές, and finally the disgusting cestus of the Roman amphitheatre. But the development was gradual. The Boxing contest was first held at Olympia in the 23rd Olympiad (688 n.c.) and the Boys' Boxing was added in the 41st. Throughout the classical period it was an important event in all the chief athletic

meetings.

The brutal opaipan were known in the fourth century and Plato recommends them as a means for discovering τον τε ευψυχου και τον μή, and even makes provision for freeing the combatants from responsibility in cases of death which must sometimes occur! But such instruments as these were apparently not used in the great national festivals. At any rate the vases do not show them. The perkixas seem to have been used in early historic times, and certainly were worn in the fight between Creugas and Damoxenus at the Nemean Games! During the fifth and fourth centuries the thongs were made harder and heavier, and towards the end of the fourth century and in Hellenistic times we find the type which is shown in the Panathennic vase in the British Museum dated 336 B.C., and which is worn by the well-known bronze statue in Rome of a seated Boxer belonging to the Hellenistic period. Further than this we need not go in the evolution of the cestus, for nothing is gained from the contemplation of Roman methods of amusement: while it is unlikely that the gauntlets of the Roman poets were ever used in genuine Greek competitions. The Greek anthology, however, contains many epigrams on the terrible wounds inflicted by the uppunnes.

The foregoing sketch shows that the conditions of Greek boxing seem

<sup>\*</sup> Paus. v. 8. 9.

Pollus, iii. 150.

<sup>&</sup>quot; Luce, viii. 830.

Parm viii. 49. 3.

The subject is fully worked out in Antibe Turngerake by L. Juttimer.

to have remained much the same from the beginning of the sixth century to the end of the fourth, and that although the tendency was to make the fist-covering more severe yet nothing was introduced that necessitated a style of fighting different from that described by Homer. This alone would be enough to show that boxing had already passed through several stages before it reached the one that commended itself to the Greek mind, and boxing pre-supposes a fairly advanced stage of civilisation, to ensure fair play, and considerable experience to learn how to finish a man off by sheer hitting massisted by kicking or strangling. It is difficult to account otherwise for the conservatism of Greek boxing, and in this connexion it is interesting to glance at the frequent and radical changes made in our own Prize-Ring, the number and importance of which are not perhaps generally realised. The father of English prize-fighting was Figg. whose portrait was painted by Hogarth, and whose name stands first on the roll of recognised champions? His date is 1719. The period between that date and the Sayers-Heenan fight in 1860 covers the whole history of the genuine P.R. during which the science of fist-fighting was evolved and was brought as near perfection as is humanly possible. The attitudes and tactics of the Belchers were very different from those of Figg. During this period throwing was allowed as well as bitting, and a fall would often have more effect on the issue of a fight than a blow which might seem more effective to a spectator. A round came to an end as soon as either combatant went down, so that they varied greatly in length. In all these fights bare fists were used, which Englishmen feel to be the only true and correct style of boxing; 'all the rest are mere imitations-mere travesties of the original: to excel in them one has to abandon some of the elementary rules of the orthodox art. 10 When, however, the exalted morality of the Victorian age had declared fist-fighting to be not only illegal but undesirable, boxing with gloves was introduced under a new set of rules in which wrestling was forbidden; a change which enables some men to win fame who formerly would have stood no chance of first-class honours. At the present time the abuse of the 'knock-out' with the right on the jaw, and the exigencies of glove-nighting are vitiating the style of all but the best boxers. professional and amateur. Thus in England much has happened in a comparatively short time. We must now find what were the Greek tactics and how far we can recover the regulations in force in different epochs and especially during the best days of Greece.

Unfortunately the evidence is mostly of a conventional nature, and so must be treated with caution. The literary accounts are either very early or very late, and most of the latter seem to be echoes of Homer. The vases on the other hand do not help us nearly as much as might be expected. The somes on vases of a good period which are of any practical value are

<sup>\*</sup> Bailminton Library, Fencing, Borney, and \*\* Itselminton, Freeing, p. 144.
Westling, p. 135.

very lew, and even in these allowance must be made for the conventions of the vase painters.

Let us take the literary evidence first. We have the well-known descriptions of boxing-matches in Homer and Vergil,11 which are admirably discussed in the Badminton Library,12 though the account of the Homeric contest seems to include some misunderstanding of the Greek." We also have the account by Theorritus 14 and one by Apollonius Rhodius. 78 Quintus Smyrmaeus and Statius also follow the established epic tradition. We need consider only those matches which were fought with lutarres. In the later accounts the gloves were of such size and weight as to dominate the whole character of boxing and to make it more like fighting with clubs : accordingly the post-Alexandrine stories are of little intrinsic value as evidence for Greek boxing though they occasionally throw a sidelight on earlier narratives. Even the μειλίχαι, however, make comparison with English boxing difficult. so we must be particularly thankful that Homer has described the fight with bare fists between Irus and Odysseus with a clearness and moderation very rare in the annals of the ring. It is clear that such encounters were of common occurrence from the readiness with which the challenge was given and taken, the easy but strictly orthodox manner in which the preliminaries were arranged, and the sporting spirit of the nobles, who evidently loved a fair fight for its own sake whoever the combatants might be. The two competitors presented a very different appearance. Irus was much the taller and heavier 1s and had also the advantage in age. Odysseus on the other hand was of medium height but broad-shouldered, deep-chested and muscular.15 evidently a typical middle-weight; ten years earlier he had been one of the best runners and wrestlers in the Greek army, so that he had possessed that quickness on which a middle weight must rely when pitted against a man heavier than himself.

The factics he adopted were exactly those which a modern professor would employ against a heavier but unskilled opponent, namely, drawing and countering. His success was complete. Irus was much dismayed when he saw how big his opponent stripped and was probably more so when he mot the eyes of the king. Anyhow he seems to have made a half-hearted lead off more as a feeler than a blow, as beginners often do when starting a round with an opponent with whom they are afraid to close at once. This blow contrary to the usual custom must have been delivered with the left for it hit the right shoulder of Odysseus. It may have merely fallen short, but when we remember the advantage in height and reach possessed by Irus, it is more likely that Odysseus saw the blow coming, ducked his head and raised his shoulder to guard the chin and then cross-countered heavily with a hook-hit:

<sup>&</sup>lt;sup>19</sup> Hind, cxiil. 651-699. Aeneid, v. 202.

is Frazing, Boxans, Wreathing, pp. 125-131.

<sup>&</sup>quot;E.g. \$\vec{e}\text{if B' Epopers Eas 'Exercise is not 'Epons made a cook at him,' but 'mes on tipose,' see bolom. (some = repi(som, which was

much till 15th Olymp, see Paus. I. 44. 1. The belt proper=Course, iv. 132.

<sup>14</sup> xxil. 197 ff.

<sup>4</sup> Argonautios, ii. 67 fl.

ie Od. gviii. 4 ; also 50-100.

P H. H. 193 4.

otherwise it is difficult to understand the tremendous effect of this knock-out, especially as Odysseus purposely refrained from putting forth his full strength. This fight finds a close parallel in the description by Apollonius Rhodius of the fight between Amycus and Polydeuces.16 Apollonius it is true often imitates Homer and is here describing a combat of the Heroic age, but late writers show no hesitation in ascribing to an earlier period the customs of their own time. so that the account may be regarded as a fairly trustworthy description of a Hellenistic encounter. The fight is much more stubbornly contested than that of the Odvssey, but the opening for the decisive blow is made in just the same fishion and the same kneck-out is administered, except that the blow lands above instead of under the ear, probably because the men were more evenly matched in height.

Another account of great interest is the racy and graphic description in the XXII Idyll of Theocritus of the match between Amyeus and Polydeuces. which contains all the essential features of a thoroughly sporting fight under recognised rules and familiar conditions.

First the spectators arrive and form a ring, and the principals bind on their thongs over lists and forearms, such as are shown on the Panathenaic vase No. B 607 (M. d. I. x. 48e, 2) in the British Museum. On entering the ring the two champions at once began to spar for position. He who could so place himself that the light fell in his opponent's eyes would naturally score a great advantage. The round, therefore, opened briskly and it was only after a hard struggle that Polydeuces gained the coveted place. Amycus, however, determined to turn the tables by a sudden onslaught and made a furious rush; always a risky proceeding against a strong opponent on guard. He received a blow on the jaw, which, had it been better aimed or Amyeus less tough, might easily have ended the fight then and there. As it was it merely checked him for the moment, and in a short time he came on harder than before. Then there was much in-fighting and the spectators shouted in their excitement. Polydeuces watched his opportunity and at last knocked Amycus down with a blow between the eyes. This ended the first round, unless we count separately the preliminary struggle for position. There was of course no fixed time limit, but they wait to see if Amyous is capable of continuing the fight within a reasonable time, and after a little while he rises. In the next round there was some more quick work at close quarters, in the course of which Amyons played on his opponent's body while Polydeuces aimed more at the face. Finally, Amycus, who seems to have done most of the attacking but was having rather the worst of the encounter, tried to finish the fight by a device which would not have been allowed at Olympia. With his own left, that is with his guarding hand, he seized his adversary's guard, pulled it down and delivered a swinging round hit. Polydences ducked and countered just below the left temple with a similar blow which Amycus was not quick enough to avoid, and which knocked him out so completely that he was nearly killed. 10

if Argonitation, II. 67 app.

Theocritics (Clarendon Press) gives a rather "Mr. R. J. Cholmily in his edition of different version and translate was as "straight

There is no need to describe the other fights in detail. They all tell the same story: two men take a firm stand and swing blows at each other's heads and flanks armed either with simple thongs or with the cestus. It is strange that the Greeks never learned to rely on straight hitting, for the principles of flat-fighting can be applied equally to fists covered with the thougs they used before Hellenistic times. The reason is probably two-fold :- First they never realised the paramount importance of foot-work. Even Vergil makes Entellus the famous champion miss his footing in a manner which judged by any standard is absurd. Accurate and quick use of the feet is necessary for the delivery of a really telling straight blow; if both men are standing still round hits are undoubtedly more severe, and it may be worth while to run some risk in order to bring off a knock-out sooner or later. This is in fact often done at the present time. Secondly they spoiled their chances of success in the infancy of the sport by invoking mechanical aid instead of studying its scientific principles; and so to compensate for their lack of skill, they condemned their tighters to wear indexes, the swaddling clothes of boxing, which prevented its proper growth. The same spirit which evolved the Macedonian phalanx instead of the equally formidable but more mobile legion developed the cestus instead of the knuckle-duster. It took the British pugilist less than a century to find that a boxer should trust mainly to his left for the attack. In this leadoff the left fist is driven straight from the shoulder into the face or body of an opponent by a lunge forward with the left foot and a strong drive from the floor with the right leg; the feet whether in advance or retreat must never be crossed or even in a straight line, nor must the right foot ever be in advance of the left. Thus speed both in advancing and retreat is secured, while a firm basis is given against a blow from any quarter; when on guard the weight is distributed evenly on both feet so that it can be thrown in a moment on to one or the other.

Leads may be made with the right and hook-hits can be delivered by either arm as time and occasion require; but the underlying principle must always be observed that the blows travel by the shortest route possible and that especially in long range hits they should be driven home by all the weight of the body and force of leg-drive. At the same time firmness of position as well as speed of movement should be insured by the proper use of the feet. To the last the Greeks seem to have ignored both these facts, to have stood with the feet about level but well apart and then to have swing their bodies round from the hips to give impetus to the blow, often rising on the toes of one foot to increase the swing. This can be judged from their guards as well as from their hits as shown on vases: it agrees with the descriptions of all fights and explains the frequent references in literature to blows on the side of the head and body. Fortunately just where the

from the shoulder, its with the weight of his shoulder. The lifecal meaning makes excellent sense, while the derived interpretation seems to me to read into the account an entirely modern idea. The very fact that Amyers is completed

to have executed an immumi managers by advancing his laft side instead of standing equarely (degree and managers) shows how different was the orthodox Greek position from that of the English Ring.

literary evidence is weak, that is to say in the fifth and fourth centuries, the vases are helpful. The number of those which throw any light on the subject is limited: there are far fewer representations of boxing matches than of almost any other sport, which is strange considering the familiarity of the subject. The best series is in the British Museum. The first is No. B 295, a well-known amphora signed by Nicosthenes and dating from about 520 n.c. Not very much information is to be gained from it; the pose is conventional and the figures are ungainly; however it confirms the foregoing remarks in some important points. First, the impetus is gained not by a lunge but by swinging round from the hips; for in the larger group though the legs are in exactly the same position we see the back of one man and the chest of the other. The lags seem at first sight to indicate a lunge, but this is at variance with the rest of the composition, and Prof. E. A. Gardner considers this treatment to be a convention intended to represent the feet at about the same level but widely separated. Similar stylistic devices may explain why the combatants seem to be on different planes. The left fist and foot of the right-hand man are behind the right of his opponent. To make the scene more realistic the latter is bleeding profusely at the nose. Both [wear light thongs woven closely round the entire hand but not above the wrist.

Next comes the Panathennic vase B 140, on which one of the combatants is bearded and seems to be pressing the attack. It is difficult to understand the position of the feet unless they are intended to be approximately level; otherwise the elder man has thrust his right foot forward and the younger his left. The elder guards with his left hand, the lingers of which are extended, while his right arm is raised and bent to deliver a blow. The younger is also guarding with his left and the fist is closed to meet the blow ; his right is contracted but lowered and he evidently intends to meet his opponent's attack with an apper-cut. The head is drawn back as though getting out of reach, instead of being sunk on one side, another sign of round hitting." It is evident that the men are engaged in in-fighting, short arm and contracted blows are the only ones employed and there is no sign of a real lunge, or any attempt to employ the weight of the body or drive of the legs by a step forward. The inarrey are of a light description and are indicated merely by lines drawn across the knuckles and wrist. The forearm is scarcely protected at all. To the left of the group is a referee with a large stick, and to the right an ephedros holding his thongs.

We are fortunate in possessing a fine kylix, B. M. Vass E 39, (Pl. XII.) in the style of Duris (B.C. 480-450) showing four pairs of boxers. Three of these pairs represent Ephebi actually engaged, and one shows boys preparing for the contest. The same position of the feet is shown in a much more natural and pleasing manner by letting one of the competitors be seen partly from behind. The motive of most of the figures is the same: the left arm extended for guarding, the right contracted for hitting. Here,

CE Asa v. 427:
Abduxere retro longe capita ardua ab ictu.

however, the hand is not raised, but the elbow is drawn back in a horizontal line, so that the fist is on a level with the shoulder. At first it seems as though a straight hit were contemplated, but it is more likely to be a truer and less conventional method of showing a round hit, just as the feet are more artistically treated. This impression is strengthened by the position of one figure who is pressing the attack. He has raised his right foot almost off the ground and has swung his right arm back to gain impetus for the blow, thus heaving himself quite exposed to a straight hit. The central group is of great interest as it shows a knock-out. The blow landed probably on the jaw or the side of the head, for the man has fallen on his left knee in a position very different from that of one who had been knocked backwards. His opponent has swung his right back to give a final hit, but the vanquished holds up one finger to acknowledge his defeat.

The thongs shown on this kylix reach about a third of the way up the forearm.

Two more fine groups of boxers are shown on B. M. Vass E 78, (Pl. XIII.) a kylix of the best red-figured period, showing various athletic scenes. The first group is a good example of a familiar design. One combatant has swung back his right hand and raised himself on the toes of the right foot, while his left arm is raised and beat to ward off a counter stroke. His opponent, a heavier man whose face seems to have suffered, extends his left and contracts his right for a counter. At the same time he tries to get out of reach not by retreating in good order but by thrusting back his right leg, bending his knee and leaning back, a most dangerous proceeding, should the attack be well followed up. The group seems to show sparring for practice only. The hands are open and the fingers separated. The attacker has thrust both hands forward but is not using the weight of his body. The other is guarding in the manner shown on the last kylix. The thougs in these groups reach about halfway up the forearm.

The large Panathenaic vase in the British Moseum (No. B 607, Mon. d. I. x. 48e 2) supplies some valuable evidence as to the form of the cestus and the physical type which were most in favour at the great boxing matches at the end of the fourth century. In both respects there is a close resemblance to the well-known seated bronze boxer of the Museo delle Terme. The men are very powerful and thickset and the gloves are formed of heavy thougs which reach nearly to the elbow. Their tactics seem much the same as those on the previous vases. One is stopping an attack by thrusting out his left arm and at the same time drawing back his head. At first it seems as though he were making a forward lunge in the most approved modern style, but on closer inspection one sees that the left foot is not meant to be stepping forward but to be set apart from the other according to the usual convention; while the fact that instead of throwing the body weight into the blow the boxer is drawing his head and body back shows that defence and not attack is represented.

Another well-known Panathennic wase (B 612) shows two boxers on guard wearing μειλίχαι. Both figures have the feet planted well apart, the left arm extended with the fingers open, the right fist shut and the arm bent and drawn back and held on a level with the chest. The vase belongs to a late period and the drawing is poor, but it gives a good illustration of a recognised position.

Thus all the evidence shows that the Greek boxers of all periods relied mainly on a swinging blow with the right, and that they never appreciated the smashing force of a quick left lead driven straight from the shoulder, though left-hand blows were sometimes delivered. Some vase-paintings have, however, been considered to show that even if modern methods were not much in favour with the Greeks they were at least recognised. It is therefore necessary to examine the most important of them: The first (Stephani C.R. 1876, 109) shows a pair of boxers, one of whom has hit his opponent in



Fig. 1.—From a Panathenau Vass. (Steplumi, C.R. 1876, 100.)

the face with his left hand. The blow, however, in no way resembles a straight hit; the arm is not straight but 'hooked'; it has not been shot out but it has been swung round or down. The first is not even elenched, only the flat of the hand is used. Again, the forward position of the left leg need not indicate a lunge, for the position of the legs of both combatants is exactly the same. If this be not a mere schematic device it may represent no more than that the feet are planted wide apart. Finally, though a blow has been scored with the left hand, the main attack is just about to be delivered with the right. Clearly, what has happened is this:—Both men were in the orthodox position with right first drawn back and ready to strike, and left arms with the hands open extended to guard. Then A swung his right arm back and downwards to deliver a swinging blow, but at the same time left his head unguarded though within range: whereupon B without even shutting his first has given him with his left or guarding hand a quick hit in the face

and is about to deal a decisive blow with the right before A can recover from the shock or regain his position.

There are other illustrations also, of doubtful value, such as Benndorf, Gr. u. Sir. Fascab. xxxi. 2. a, and a kylix of Pamphaeus (Mon. d. L. xi. 24).



Vast. (Lourn F 278.)

Much more important is a vase in the Louvie (Fig. 2; Pottier, Vases antiques du Louvie, vol. ii. Pl. 82) where it really does seem as if a knockout blow on the jaw had been delivered by a straight left lead. This impression is confirmed if we contrast the position of the falling man with that on the Duris vase quoted above. But from the usual position of the hands it is probable that 'chopping,' or a tendency to strike downwards prevailed even in comparatively straight hitting. Thus, though it is clear that the left hand was sometimes used for attack, it is equally clear that the method of using it

differed radically from that employed in the English ring. Nothing proves this more conclusively than the way in which on all vases the body both in attack and defence is left exposed to straight hits. Contrast such positions with popular prints of prize-lighters on guard or with the illustrations in any good book on boxing, and the difference will be seen at once. It is natural that hits should be given with the left as well as the right, when an opportunity occurs; but if the pride of the English ring, the straight left, is to be made really effective it must dominate the whole scheme both of attack and defence. It can be confidently stated that this was never the case with the Greeks.

The foregoing sketch shows that the oridence of the vases agrees with the literary tradition so closely that although some questions of procedure remain doubtful yet the main features of a boxing match at Olympia in classical times can be reproduced with tolerable certainty. Let us endeavour then to picture the probable course of such a contest in the fifth century.

According to Dr. C. Robert<sup>18</sup> the boxing came in the middle of the third day, that is to say exactly in the middle of the whole festival, and when we remember that the severer contests were held in the middle of the day with the express purpose of increasing the distress we may well wonder at the fortified of the Greek athletes. Even for spectators the noonday sun at Olympia in July is a trying orders, while the languor caused by the heat in the valley of the Alphens seems to preclude the possibility of such violent exertion. Especially would this be the case in boxing, which Homer truly calls \$\prec{\partial}{\partial} \text{causing distress, a word which probably implies not so much the pain from the blows as that distress which causes the less of most fights not decided by a knock-out. However, the competitors had passed through nine months of training on the spot and represented the curvival of the

fittest. When the pairs and byes had been decided by lot, the first pair entered the arena. We have no evidence that the size of the ring was defined exactly and there were certainly no ropes; thus some of the most familiar devices of the English ring such as cornering and slipping, which are due to the presence of a barrier, would be unknown. It seems rather that the science of advancing and retreating had not been encouraged and that the combatants were expected to stand their ground as far as was possible. Each was accompanied by his second, either a relative or a professional whose first duty was to bind the inarrec round the fist and forearm but leaving the thumb free. Apparently the seconds, contrary to modern custom, were allowed to advise the principals during the actual progress of the struggle as well as between the rounds. This is shown by the well-known tale of Glaucus the Carystian, one of the most redoubtable athletes of antiquity When a boy he re-set a ploughshare which had become loose, using his fist as a hammer, whereupon his father, admiring his strength and hardihood, entered him at Olympia for the boys' boxing match. Then, when he was being hard pressed in the fight by his more skilful opponent, his father (who was, we may suppose, acting as his second; shouted on wai, the are aporpou, whereat with a mighty effort Glaucus felled his antagonist. It is interesting to note that this same Glaucus was one of the few who won at Olympia both as boys and men. He was also a represon/ene having won. at Isthmian, Pythian, and Nemean games as well. When the two competitors entered the ring there was no preliminary hand-shake; indeed, there seems to have been little of that mutual goodwill which forms an important part of what we call sporting feeling. On the contrary it was much more in accordance with Greek traditions to advance bereat beautiful looking daggers and meaning mischief-though it is most unlikely that they wasted their breath in the murderous boasts of Epic heroes. The first struggle was to obtain a good position," which seems to show that there was not much idea of working round, although it is not necessary to suppose that a position once taken was rigidly adhered to throughout the contest. Then, when the men had determined their respective places, a firm stand against round hits was secured by planting the feet well apart and nearly on a level, with the body square so as to had off with either hand after the manner of the earliest school of English boxing. The Greeks, however, differed from the worthies in the days of the early Georges by employing mainly round and not straight hits. The natural corollary is that they relied chiefly on a knock-out with the awinging right.

After the preliminary manounvring for position and sparring for an

\* Sobel. Phito. Rep. 1: 388 o. d. Arrigon at granders will Sarridon vi manuscri.

brigate, did sai brisness.

<sup>\*\*</sup> Schol to Find Of at 10, p 242 a Adyre sie che Hunchius roothe els rependius Approximation actions and all the rependius and rise actions and all the actions are surror, et al distinguish and all the second and all the s

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<sup>\*\*</sup> Arietid. xiii.; Firmunh. 160, sprotest by Kreine, p. 500 Sowep alle at everte repl via arrierae πρώτου ήγρασίστατα. Also Arieti. έα επίσε χ. 200 Bokk. Ασπερ αδο έν τοῦν γομοιοιών άγθου δρώτο πολύ σύστας πορί τῆν απάσεως πρότ δΑλήλους διαγραφήδιούντε.

opening the work would begin in earnest, and terrible work it would be, Classifications according to weight would have been foreign to Greek ideas: a man came to Olympia to win the all-comers championship or nothing, and so the boxers were mostly heavy-weights. When two heavy-weights armed with imagerey box in the manner indicated, a alogging match of the most burbarous description almost necessarily follows. On the other hand wrestling, which played so important a part in the P.R. was not allowed, neither was clinching; such devices were reserved for the pankration. The bout might be ended very quickly then as now by a knock-out from a lucky hit; but as a slow slogging hit is much more easily guarded than a straight drive, and as Greek athletes appear to have been capable of taking much punishment, the fights must often have been longdrawn. Glaucus, of whom mention has been made already, was especially famous for his skill in xerpovonia and was represented on guard in his statue which Pausanias saw. In a protracted battle the length of the rounds was determined much in the same manner as in our own P.R., that is to say, either by one of the combatants being knocked down, or by a luil in the fray occasioned by the simultaneous exhaustion of both. The fight was to a finish. ™ and if not decided by a knock-out was ended by one of the combatants raising his finger in acknowledgment of defeat.20 If a draw seemed otherwise inevitable it sometimes happened that an exchange of free hits would be agreed upon, a practice which must have given the first striker a great advantage 30

Throughout the meeting order was maintained, the rules enforced, and the awards made by the Hellanodikai. How far they tried to keep silence does not appear, but apparently the spectators shouted when they became unusually excited, which must have embarrassed the seconds. If a modern pugilist could witness a fight of this description he would condemn the style of the Greeks on the ground that they wholly failed to recognise the two great principles on which the whole science of boxing rests:— good footwork and straight hitting. There is no reason to doubt that the Greek boxers exhibited all the quickness of resource and power of endurance essential to the fighting man, or that they had reduced to a fine art the delicate operations of timing, countering, and getting out of reach.

They were also fully aware of the importance of utilising the weight of the body to increase the force of the blow; but their style of hitting must have been comparatively slow, like a sabre compared with a foil, and it is difficult to believe that any Greek could have stood up for long against a first-rate modern prize-fighter if both wore the inarres that were used in the fifth century. It is to be regretted that the Greeks made the inairres more

<sup>&</sup>quot; robs \$4 migras with mire Soukanirous factor of SpaSecral supplementary, Tintarch, Symp. ii. 4.

If Ap. Rhod. ii. 86 orders to Bude fruster.

<sup>3</sup> Sucruereour, Pans. vi. 10. 1.

Pint. Lycurque, c. 19 is els geis deursivera.
 See Erme, p. 822, cf. Pausanias, viii.

<sup>40.</sup> B.

<sup>&</sup>lt;sup>32</sup> Plutarch, De project, is virt. c. 8. At the Isthmian games Assemblus remarked to Ion that while the speciators cried out whichever a blow was struck, the man who received the blow was silent.

and more severe. Fist-fighting is a noble art and it secures a decisive result without (as a rule) permanent injury to either combatant. But boxing with loaded gloves is spurious sport, in which those only would engage who made it their trade for the pleasure of a brutal populace. A sport which unfits one for everything else defeats its own object and justifies the attacks made on its devotees by Euripides 32 and Kipling. Both these authors, however, seem to have attacked the gentlemen athletes in a manner which has called forth considerable protest. It is likely enough that when actually in training the athletes, just as rowing men are fit for little except the river when training, were expeders and easily upset, but it does not follow that even in the fourth or third century the competitors as a class devoted themselves to athletics exclusively, although a certain proportion would naturally do so. On the other hand under modern conditions all the competitors at Olympia would be considered professionals. It is true that the wreath of olive or bay had no intrinsic value, but we are upt to forget the substantial prizes that fell to the victor's lot as well. Thus Solon decreed that 500 drachmae should be paid to each Olympic victor,33 and further that he should be maintained for life at the Prytaneum, roughly equivalent to giving a University Blue the perpetual right of dining at the High Table of his college; a very valuable privilege if he were to live all his life in Oxford or Cambridge as the Athenian would in Athens. Moreover the competitors at Olympia were necessarily the few who had already fought before their way to the top of their profession, from local athletic meetings upwards, and at these provincial competitions prizes of value were offered. Even Heracles says quite naturally in Alossis. that he competed for the prize because it was after warov. This being the case it is strange that Greek athletics suffered so little from the professional spirit and that gentlemen competed throughout the best period.

Perhaps the chief reason was that the honour of winning at Olympia outweighed any other inducement that could be offered, and this would be a more powerful safeguard against collusion than the vigilance of the judges. For although they had always a keen eye for material gain yet the spirit and environment of the Greeks in their own social intercourse and especially in regard to athletics resembled that of our own Public Schools and Universities more closely than any other institutions ancient or modern.

It must be acknowledged that the generosity and courtesy which we consider essential to sport were often lacking, especially in the treatment of the vanquished. But the fact remnins that the Olympic festival retained its reputation for fair play for centuries, in spite of professionalism on the one hand and slavery on the other. No stronger proof could be given of the honour and vitality of Greek athletics.

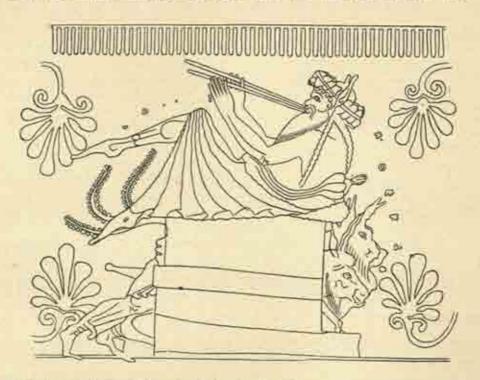
K. T. FROST.

<sup>\*</sup> saxive yap former e.v.A. Athen. X. 418. The parallel between this and Kipling's tirade against fiannelled fools is very close; one might almost be a free translation of the other.

Also 100 druchmas to a winner at the lathman and other games. Plutarch, Solos, e. 23. Krause, sp. sol. ii. p. 765.

## A NOTE ON THE CACUS VASE OF THE ASHMOLEAN MUSEUM (J.H.S. XIII, 70).

In this Journal in 1893 I published a very interesting amphoradiscovered by Mr. Arthur Evans in a tomb at Gela in Sicily, which I described as shewing on one side Cacus dragging the oxen of Geryon backward into a cattle-shed, while a satyr above plays the flutes, and on the other side Herakles singing to the lyre. This wase has been subjected to a



critical study by Dr. E. Pernice, who has found some interesting facts which I had not noted when I published the vase. I must begin by heartily congratulating him on his keenness of eye and his ingenuity. But at the same time I must express my regret that Dr. Pernice did not before

Ashmolean Catalogue, No. 211, Ph. L. A.

publishing his paper, commission me or some other colleague to re-examine the vase itself. Owing to this omission, the inferences which Dr. Pernice has drawn from his observation are almost entirely misleading.

The fact which Dr. Pernice has observed is that the two legs which I supposed to be those of Cacus (see the cut, repeated from J.H.S. 1893, p. 71) are really quite different one from the other. One wears a high boot, the thigh is bare, and a chiton appears below the waist with a sword in a sheath lianging by it; the other is draped down to the ankle, and does not look like a male leg at all. By comparison with an Attic lekythos at Berlin' which represents the Judgment of Paris, Dr. Pernice tries to shew that the two legs belong originally the one to Hermes, the other to Paris, in the scheme which represents Hermes seizing Paris to prevent him from modestly trying to escape from the honour forced upon him. In fact, they do closely correspond with the two limbs in question in the vase-painting cited. When, however, Dr. Pernice goes on to find the end of the herald's staff of Hermes in a curious knot among the horns of the oxen, he is mistaken. Mr. Amlerson's drawing of the Cacus vase is, I need scarcely say, excellent; but it is not perfect, and a close examination shows that he has been led into a slight inaccuracy by a break on the surface. The borns of the oxen are oxen's horns and nothing else.

The view of Dr. Pernice is that the painter of the lekythos bad in the first instance painted on his vase a group of Hermes struggling with Paris, but he thinks the satyr also belongs to the original scheme; and he combines satyr and struggling group on p. 50 into a design which he confesses to be almost unintelligible, but which he supposes to have some relation to early scenic representations at Athens.

The supposed caduceus I have already stated to be an imagination. And as this group of Hermes and Paris is allowed by all who have discussed the Berlin vase—von Duhu, Furtwängler, Miss Harrison, and Pernice himself—to be nothing but a slavish copy of a group of Peleus' seizing Thetis, the latter subject, if any, would be part of the original design of the vase, and Dr. Pernice's heading Ein Paris-Urtheil turns out to have no justification. But on my carefully examining the vase in company with Mr. Arthur Evans, it appears that nothing beyond the two legs of the supposed group was ever painted upon the vase at all. There is no sign whatever of repainting, no trace of any figures in silhouette beneath the surface of the cattle-shed. In fact, what we see in the painting of the vase is exactly what from the first the painter meant us to see. His composition is curious, but nothing like so curious as the restoration of Dr. Pernice would be.

A very simple explanation of the vase-painting suggests itself. The vase painter, who had no imagination, but was of a very imitative turn

Figured in the Jahrh, 1996, also in Arch. \* The sword in particular is conclusive svi-Zest. 1883, Pl. XI. Cl. Furtwangler, Cat. dence on this point.
Fass Barlin, No. 2805.

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of mind, was set to paint a subject new to him, and did not know how to proceed. He had recourse to the barest edecticism from subjects familiar to him. The cattle-shed he copied from an altar, the reclining satyr from a silenus lying on the back of an ass. Needing two human legs, he took them from the group of Peleus seizing Thetis. For the oxen he had no prototype at hand, so he composed them;—and a very poor business he has made of them!

I do not feel sure that the painting is intended to represent the adventure of Cacus, and in fact I have always had doubts on that head. But Dr. Pernice's observations do not detract anything from the probability that this is the meaning, nor has he any other suggestion to offer as to a possible interpretation. A shed with the heads of cattle protruding from it at one end, and two human legs protruding at the other, what else can this mean ! Possibly the theft of Apollo's cattle by Hermes might be suggested; but Hermes was an infant at the time, and then Herakles is depicted on the other side of the vase. On the whole, until some better suggestion is made, I stand by my interpretation. The satyr seems to shew some relation to a satvric play, or a comic rendering of myth. Our vase -- and there I agree with Dr. Pernice-is more probably Attic than Sicilian; but it was found in Sicily, and was very probably made for a Sicilian. The date of a vase so conventional is not easy to fix, but it would probably be the sixth rather than the fifth century. This is rather too early for Epicharmus, but not for the kind of comedy in which he excelled.

P. GARDNER

### AN ATTIC GRAVE LEKYTHOS.

## PLATE XIV.]

PENTELIC marble. Total height, 113 cm. Height of body, 96 cm. Of figured space, 47 cm. Circumference round the bottom of figured space, 116.5 cm.

The upper part of the neck and the whole of the handle are missing.

This beautiful marble grave lekythos, which I have received kind permission to publish from Dr. Kastriotis and M. Stais, is now in the National Museum of Athens (No. 2584). It was discovered in the year 1904 in the house of Spiliotis near the σφαγεία on the left bank of the Ilisos.

The vase itself is considerably broken, and the surface of the marble is unfortunately a good deal damaged, but in spite of this, at the first glance, one is struck by the beauty of the whole composition of the relief which covers more than half of the body of the lekythos. This relief is interesting also for its subject matter, which, as far as I am aware, has no exact parallel; a somewhat unusual fact, for on the whole there is not very much variation in the scenes and motives represented on the Greek grave reliefs.

A technical point to be noticed is that the figures are not as is generally the case on these lekythoi, just in slightly raised relief from the surface, but the whole relief is set back in a frame-work, so to speak, the feet of the figures resting on the lower rim, so that the whole makes a very pleasing finished effect.1 We must imagine the addition of colour, of which no traces are now visible, but which we know was considerably used to carry out details and as a finish to works in relief as well as to sculpture in the round. both in the early and later periods of Greek art. The hair of the figures was almost certainly coloured, and in all probability the garments also and the shoes. Some of the Attic grave reliefs are of special importance owing to the fact that they are among the few original works preserved to us in which traces of this colouring are still actually visible. Take, for example, the stele of Aristonautes; I in this we still see faint signs of red inside the shield, blue on the background and green on the shoulder clasp of the mantle. Also a small stele Ath. Nat. Mus. No. 892,3 in which distinct traces of red are to be observed on the hair of the little girl.

J Other marble lekythoi with a similar technique are No. 810 Ath. Nat. Mus.; Conze, Attrache Grab-Reliefa, Taf. ceriii, No. 1059; also Conze, No. 294, Taf. lxx.

Ath. Nat. Mus. 738 Kayvadias, and Conze,

<sup>\*</sup> Conze, 840, and cf. Ath. Mitth. 1885, p. 240, note 1.

To return to the lekythos, we see that the lower part of the neck is decorated with a painted design, and remains of the graceful palmette pattern carried out in dark red are still visible. It is possible that the base was ornamented in the same way. We must now study the human figures and the scene depicted in this relief. There are four persons represented. The left hand figure is that of an elderly hearded man (Plate XIV., Fig. 1). turning towards the right, that is towards the centre. He is clad in a chiton, and over this is a mantle covering only the lower limbs, and this seems to have been held in place on the left side by the staff on which the man is leaning. His legs are crossed and there is no doubt from the position of the right hand that it was holding the staff, which must, however, have been carried out in colour, as there is now no trace of it visible. He seems to have a narrow fillet round the head. He is resting his chin on his left hand, an attitude which we find constantly occurring on grave reliefs, and which is probably expressive of grief. The corresponding figure on the right is that of a woman (Plate XIV., Fig. 3), also turning towards the centre, and in the same attitude as the man; she is resting her chin on the right hand. She has a long chiton and over this a kind of mantle which falls in folds down the left side from the left shoulder, but leaving the right shoulder free is taken under the right arm and passes in folds across the waist; the end hangs over the left arm, which is held against the side, the hand resting flat on the folds in front. The woman's hair is cut almost short, reaching not quite to the nape of the neck.

A figure which shows many points of resemblance to the one in question is that of Mynno.\* This latter stell belongs without doubt to the same period as the lekythos, and there is so much similarity between these two figures, that we might almost attribute them to the same artist. For instance, the hair is very similarly treated to that of Mynno, being, like it, cut short and without a parting. There is resemblance, too, in the expression and in the shape of the faces. The garments also have points in commonnotice for instance the treatment of the small folds of the chiton round the neck in front, and the way in which the stuff clings to the body, shewing the outlines of the breasts very distinctly.

Turning now to the two central figures of the group, we cannot but be struck by the grace with which they are represented as well as by the simple charm of the little scene enacted. On the left stands a youth, hardly past the age of boyhood, the body shewing but slight muscular development. The upper part of the body is nude, and round his lower limbs is a mantle reaching almost to the ankles; it is caught up on the left, and he seems to be holding it against his side with the fingers of his right hand, in the palm of which sits a little hare, which he is grasping by the ears with the left hand. On the right, turning towards the centre, towards the youth, is a younger woman, evidently of an age about corresponding to his. Her garments are exactly similar to those of the other woman standing

<sup>\*</sup> Beriin Catalogue, No. 737, and Furtwangler, Coll. Sabourny, Bd. i. Tal. xix.

behind ber, whom I have already described. There is a difference, however, in the way in which the younger woman's hair is dressed; it is not cut short, but gathered up into a knot at the back, where it is held in place by a broad band which passes round the head and is divided in front into three narrower bands, one of which rests on the forehead, the others on the hair which is shewn in between them. This seems to have been a very usual fashion for younger women. Compare for example the stele of Hegeso, where the hair is very similarly treated, though a little more elaborate.

The two central figures of the lekythos seem to be advancing towards each other, for each has one foot drawn back behind the other, with the heel off the ground. The girl's right hand is slightly extended, perhaps with the intention of taking the hare from the youth. Between the two is a stool, one of the ordinary diphroi—a very usual piece of household furniture which answered the purpose either of a seat or a table. See, for instance, the seats of the gods on the Parthenon Frieze, and aumerous examples of painted vases where the diphros is represented either as table or seat (see especially

on the white-ground grave lekythoi).

We now come to the interpretation of the whole scene represented. It is doubtless capable of several explanations, but the one I would suggest as the most likely is the following. The two figures in the centre are probably brother and sister, both having died young, perhaps at the same time, and the two persons on either side are the father and mother, mourning their dead children. On many of these marble lekythoi, as on other grave stelai, we find the names of the persons inscribed above them or beside them, but here we have no such identification. It is very usual on grave stellai to find the survivors who erected the monument themselves portrayed, as well as those in whose memory it was put up. It may be considered that the woman on the right is more likely intended to be a servant or slave, owing to the fact that her hair is short (a style very customary for servants); but we know that women frequently cut their bair as a sign of mourning, and probably this explanation holds good in this case, that the mother is represented with short hair, as significant of grief. Difference in age between women is seldom, if ever, represented on these grave reliefs, so the fact that here there is no distinction of the kind need be no reason against accepting the theory that the woman on the right is the mother probably of both the youth and the girl; and there can be little doubt that the elderly man is the father:

The hare which the youth is holding needs some explanation. It is clear from other reliefs as well as from various vase-paintings that a hare was one of the favourite and most usual pets and playthings of the Greek youths, and was evidently almost as much of a domestic animal as the dog or the cat. On several grave reliefs erected to the memory of a youth, we find him

and many others.

Conze, Bd. i. No. 88, Tai. xxx. and Brunn-Bruckmann, Denkovater, No. 436.

<sup>\*</sup> Cf. for example, Ath. Nat. Mus. No. 1064, Lekythos of Metrodora, Phillia, Mys and Meles,

J. See Furtwangler, Coll. Soloured, stells of Mynno, Tof. siz. and Text.

represented with a hare, evidently as one of his favourite playthings. For instance in the Athens National Museum's is a youth leaning against a small pillar on which sits a hare. Also in the Athens National Museum the stele of Telesias. We find a hare constantly depicted on vases on which are painted scenes from the palaestra. For example, an amphora 10 on one side of which is a youth, evidently a victorious athlete: attached to his wrist hangs a hare. Also a red-figured kylix, 11 showing a scene in the palaestra, where one group is composed of an elderly man handing a hare to one of the young athletes.

On the other hand we know that the hare was one of the symbols of love, and one of the animals sacred to Aphrodite, 12 and in this way connected with Eros. 18 There is a relief 14 in the Villa Albani, representing Aphrodite throned, while under the throne crouches a bare. The animal under the throne of Aphrodite on the coins of Nagidus is however not a hare, as it has been called, but a mouse or rat, 16

In vase-paintings the hare is constantly given as an attribute of Eros. For example the well-known vase <sup>19</sup> in the British Museum: on one side we have Odyssens and the Sirens, on the other side are three Erotes, one carrying a hare. Also in the British Museum is a lekythos on which Eros is represented hovering over an altar, holding a hare in both hands. There are many other instances, which it would take too much space to mention. I merely quote these examples proving the connexion of the hare with Eros, as this fact makes another explanation of the scene we are studying possible, although I think not preferable to the one already suggested. The two central figures might be regarded as being intended to represent two persons either betrothed or perhaps lately married—the young lover or husband has died and is depicted as handing over a symbol of his love to her from whom he has been parted.

It is possible that the girl is not going to take the hare from the youth but that she also held some object in her right hand—a flower or bird perhaps, which, having been carried out in colour, is now no longer visible; but, judging from the attitude and general demeanour of the two, the other theory seems the more likely one, and we probably have the brother and sister represented as they were in their lifetime with the plaything they had enjoyed in common.

Before considering the question of date there is one other interesting point to notice about this lekythos. We have already observed that there are no names inscribed as is very often the case, but on the lower part of the

Karvadias, No. 794, and Conze, ii.\* Tal. claxavi.

<sup>&</sup>quot; Kavvadias, No. 898, and Congo, ii.", Tat.

Tal, celagy,

<sup>11</sup> Gerhard, Bd. ii Tal, celazvili.

<sup>&</sup>lt;sup>22</sup> See Furtwangler in Roscher's Lexiton, Bd. i. p. 378.

<sup>&</sup>lt;sup>16</sup> Furtwangler, Evos in der Fassamuleres, pp. 14 aml 15.

Miller-Wisseler Denkmäler aller Kunnt, Bd. ii. Tat. 24, note 257.

<sup>&</sup>lt;sup>15</sup> Hid, note 258<sup>3</sup>; see B. M. Coins, Lycamia, stc. pp. xiiii., and 113.

<sup>&</sup>lt;sup>18</sup> Move, d. J. I. 8 and B. M. Posser, iii. No. 440.

meck are two words inscribed, still quite legible. These words are OPO≤ MNHMATO≤ which translated literally must mean 'the boundary or boundary stone of the monument,' in this case of the tomb. It is curious to find this inscription " occurring on one of the actual grave monuments, and, as far as I am aware at present, this is the only instance of its use in this way. Only one explanation of this seems possible and in order to find it we must consider briefly the known facts concerning the graves and burial grounds of the Greeks. We know both from excavations and from literary sources " that from very early times it was the custom, especially in Attica, for the members of one family to be buried together in one piece of ground, and a monument, in early times a tumulus, then later stelai, statues, etc., was erected. In many parts of the country there are also rock-cut graves which evidently must have served the same purpose. These family graves were enclosed by a wall, and traces of these walls are still visible in different places, especially in Brauron and Vari. "

Until the law of Solon was passed forbidding the custom, people were buried within the towns; the possessors of a plot of land would probably use part of it as a family burial place." After Solon's time the graves were outside the city walls, generally along the sides of a much used highway. as for instance along the Sacred Way leading from Athens to Eleusis. The families rich enough to do so would buy a piece of ground, usually make a slightly raised terrace surrounded by a wall, and within this space set up a monument or more than one to the memory of the different members of the family," Traces of these walls may still be seen in the Dipylon at Athens; for instance part of the polygonal wall in the shape of a half-circle is still standing round the monument of Dexileos which was part of a family tomb. There is no doubt that these tombs were often very plentifully and richly decorated : stelai with or without a relief, lekythoi and loutrophoroi, as well as life-size statues or a group in an aedicula-all these different forms of monument were possible, and probably sometimes within one enclosed space there may have been an example of each; even the slaves of the family were also sometimes represented as mourning their masters.22 So we must suppose that our lekythos was also a monument belonging to one of the large family tombs either in Athena itself or in some other place in Attica, and for some reason which we cannot definitely explain the words open unimates were engraved on it to mark the boundary of the particular tomb to which it belonged. Perhaps this family tomb was not surrounded by a wall as was usual and so in order to keep it distinct from the next grave, these words were engraved on the lekythos which stood at the edge, instead of on an ordinary boundary stone which we should expect to find used for the purpose.

Scone.

To the latest list of such inscriptions see Tillyard, in B.S.A. 11, pp. 67 f.

<sup>18</sup> E.g. Demosthensa, Exhalid, 28 and 57.

<sup>&</sup>quot; See Furtwangler, Introd. to Collection Sabouroff, p. 29.

<sup>&</sup>quot; See Becker's Charibles, iii. Excurs our 9000.

<sup>&</sup>lt;sup>21</sup> See E. Curtims, Genkickie der Stadt Athen, p. 204.

See Furtwängler, Coll. Sabouroff, Text and Plates, 15, 16, and 17.

In conclusion—a few words as to the date of the work, a question which it is not difficult to decide. The relief is in every respect characteristic of the latter half of the fifth century R.C., of the school of Pheidias, and has many traits in common with the Parthenon Frieze as well as with other grave reliefs belonging to this period. For each figure on the lekythos we can find a counterpart in the Parthenon Frieze: to the women with their garments clinging almost as if damp to the body, we need but compare the scated goddesses or the maidens carrying the stools on the east frieze. On the same side we find an elderly man, a citizen leaning on his staff, and beside him a youth, both of whom distinctly recall the father and son of the lekythos, and indeed, throughout the whole frieze, there are numerous figures which afford a comparison to these two.

We have already instanced the relief of Mynno as belonging to the same period; another grave relief, although of much bigger dimensions, which shows very similar workmanship is in the National Museum, Athens; 25 there is great similarity in the way the persons are standing, in the folds of the garments, and especially in the not very skilful treatment of the hands and eyes. M. Kavvadias ascribes this relief to the middle of the fifth century, and I should be inclined to date the lekythos a little later, probably nearer the time of the Parthenon Frieze.

I may add that these murble lekythol seem to have been a favourite form of monument at this time, for on examination I think we find that nearly all these lekythol found in the various museums date from this period—the middle to the end of the fifth century, before the beautiful acdicula-shaped monuments, which have come down to us as beautiful examples of original work of the great art of the fourth century in Greece, came into vogue.

SILVIA M. WELSH.

W Kavvadias, No. 716; Corre, Bd. i. Taf. luiz. No. 293.

## SOME SCULPTURES AT TURIN.

## [PLATES XV.-XVII.]

During a visit to Turin last autumn to photograph the so-called Diadumenos, which is here published, I believe for the first time, I took the opportunity to photograph one or two other works which seemed to be interesting. The photographs of these are published with the 'Diadumenos' in this paper. The discussions added to the descriptions of them are not intended to be complete, nor are they, I fear, perfect. My excuse is my desire to make interesting sculptures accessible to those better fitted to criticize them. In preparing this paper I have received much kind help from Dr. Amelung, who has most generously placed at my disposal many of his notes, especially as regards the list of replicas of the Praxitelean Athems, which is entirely his own.

 Young male head of athlete.<sup>1</sup> (Pl. XV.). H. '285 m., depth of head '24 m., distance between corners of eyes '125 m., length of face '195 m., of mouth '06 m. Greek marble. Restorations: tip of nose; lips, chin, right cheek and brow, and hair are all damaged.

The head is turned a little to its right, and looks downwards. Over the brow is a slightly swelling bar. The lines of the eyes and mouth are firm and hard. The cheeks are also very hard in modelling. The long, loose curls, which fall over the forehead, are carefully parted in the centre. The loose ends of the hair are worked with the drill. The hair in general is in long, thin strands curling tight at the ends. At the back the hair is braided each side into two plaits which are taken round the head on either side, and cross one another in front above the parting. The ends pass along to above the ears where they are then tucked under, and hang down over each ear.

From the drilling of the hair, and the incised treatment of its lines, the surfaces of eyes, mouth and cheeks, this head is clearly a copy of a Greek bronze original.

b Dittschke, 52 (he wrongly calls the head female); Furtweigler, Meisterweits, p. 448. Id. Masterpleson, p. 247 (he calls it male, but

unionunderstands the bair and says the head is a Disdumence); Ameling, Rev. Arch. 1904, it. p. 344, 1.

As regards the style and the date of the original it is not easy to torm an opinion. In connexion with it Furtwängler suggests the name of Cresilas, thus dating it to the third quarter of the fifth century. Amolung denies its relation to Cresilas and says it is a good example of the mixture of Attic and Polycleitan art towards the end of the fifth century. These two views, though apparently conflicting, both depend on the same lifea, the mixture of Attic and Polycleitan art in the later fifth century. This is clearly stated by Amelung, and is the essential theory that underlies Furtwängler's conception of Cresilas artistic career. He says 2 Cresilas was a Cretan artist, who was first attracted to the brilliant Athens, and later, on the outbreak of the Peloponnesian War, migrated to Argos. Thus the essential point of these two opinions is the same, that in this head we find a union of the Attic and

Argive styles of the later fifth century.

A brief examination of some of the details of the head will show how far this idea is correct. The first noticeable point is the careful parting of the hair over the centre of the forehead. This occurs in the Doryphoros and Diadumenos, and in all the other works attributed to the Polycleitan school, In the free plastic handling of the hair it resembles the Diadumenos rather than the Doryphoros, and therefore shows the influence of the later rather than the earlier Polycleitan style. The parting of the lair, the mass of locks over the ears, and the plaits wound round the head find analogies in statues assigned to the Attic school. The Choiseul-Gouffier Apollo and the charioteur of the Palazzo dei Conservatori both show this to some extent. These features recur in the Cassel Apollo and the Apollo of the Museo delle Terme. A somewhat similar rendering of the hair is seen in the young male head or the double herm at Madrid, which Furtwangler calls an Eros after Phenlias," and in the heads, which are both the same, of a double herm in the Barracco collection." We can thus see that both Attic and Argive influences are present in the Turin head. The arrangement of the hair in the double plait, whether it be the krobylos or not, is Attic," as are also the thick masses of curis over the ears. The extremely careful parting and the free plastic rendering of the hair, which, though handled as a mass, yet shews each individual lock very clearly, are Polycleitan. The rough surface of the plastic locks finds its parallel in the hair of the Diadumenos? rather than in the smoother style of the Doryphoros. Again in the square, solid outline, the head is very similar to the Diadumenos. But the heavy jaw, the decided lines of brows, nose, and mouth have no relation to the soft beauty of the Polycleitau work. The face is strong and vigorous: the texture is hard, but well rendered to indicate firm flesh over a strong backing of bone. This is not Argive in character, but shows all the qualities of Attic art which are noticeable in the later metopes of the Parthenon.

<sup>2</sup> Masterpiere, pp. 116, 248.

<sup>\*</sup> Ball, Con. 1888, Pl. XV., XVI., Hulbig<sup>4</sup>.

Furtwangler, Masterpileses, p. 192, Fig. 80.

<sup>= 1</sup>d. Bid p. 50, Fig. 8.

<sup>\*</sup> Id. did p. 67, Fig. 20.

<sup>7</sup> Helbig Coll. Burracco, Pl. XXXV., XXXVa.
\* v. Schreiber, Ath. Muth. 1883, p. 246 seep.:

Studniczka, Jakeinsk, 1896, p. 246 segy.

Of. Purtwingler, op. cit. PL XL

Thus there seems to be rather more of Attic than Polycleitan in this head, and we may attribute it to an Attic artist who fell under Argive influence and who flourished in the last quarter of the fifth century. It was just about that period that the various local styles were becoming merged to produce the fine Greek style of the fourth century. No sculptor can be mentioned as the probable artist of this head; nor can a name be given to it. We only know that it is male, and may be an athlete or an Apollo.

 Torso of Athema.<sup>10</sup> (Pl. XVII, 1) H. 1-25 m. Coarse grained white marble (Parian t). Head, right fore-arm, and left foot are broken off. The right shoulder is reset.

The goddess stands on her right leg. The left leg, which is slightly drawn back, is free. The left arm is bent, and the hand rests on the hips. She is clad in a long chiton, a himation which is passed over the left shoulder and wrapped tightly round the body. The aegis is worn crooked, inclining to the left side.

In execution and style, this is a very good copy of a well-known type of Athena. It is impossible to date the copy, but it is early, rather than late. The drapery, though worked with the drill to some extent, is well and naturally handled. The Gorgoneion on the aegis, which is, as far as can be seen, of the pathetic Hellenistic type, has probably been modified by the copyist.

This Athena type, of which the Turin statue is a replica, has been attributed by Ameling 11 to the Praxitelean school. The best example is the famous bronze in the Museo Archeologico at Florence. 12 The full list of replicas is as follows:—

- A. Castle Howard, Michaelis, Ancient Marbles, p. 326, 4; Reinach-Clarac, p. 229, 6.
- B. Rome, Palazzo Ginstiniani, Gall. Giustiniani, Pl. V.; Reinach-Clarac, p. 232, 5.
- C. St. Petersburg, Hermitage, Kieseritzky, Katolog. No. 155; Reinach-Clarac, p. 235, 7.
  - D. Oxford, Reinach-Clarac, p. 236, 1.
- E. Ince-Blundell Hall, Michaelis, Ancient Marbles, p. 338, 8; Reinach-Clarac, p. 237, 4.
- F. Oxford, Ashmolean Museum, Michaelis, ep. cit., p. 546, 20; Reinach-Chrac, p. 238, 4.
  - G. Rome, Coll. Pamphili; Reinach-Clarac, p. 291, 6.
- H. Rome, Palatine, fragment (breast and left arm) in substructures of palace of Septimius Severus; Matz-Duhn, 628.
- I. Rome, Ferum by Shrins of Juturna, found in 1900 by Temple of Castor and Pollux; Not. d. Scavi, 1901, p. 114, Fig. 73; Rôm, Mitth. 1902, p. 80.

<sup>&</sup>quot; Dutschke, 53.

<sup>11</sup> Basis der Pennitelia, p. 16 sogy.

<sup>246.</sup> 

K. Fermo, found in theatre in 1853, lower part of body, Ann. Inst. 1858, p. 134, Pi. I, 1; Reinach, Réport. ii., p. 679, 7.

L. Benevento, headless statue; Not. d. Scavi, 1904, p. 111, Fig. 4, p. 112

above, p. 128, No. 2.

M. Rome, lower part of good replica seen by Dr. Ameling in the hands of the dealer Sangiorgi in 1905.

N. Paris, École des Beaux Arts, statuette, neck to knees, head and arms

were set in; Reinach, Repert, ii. p. 292, 8.

O. Turin (the present replica).

The most noticeable point is that the marble replicas differ from the bronze in wearing the negis obliquely across the breast, while in the bronze it is worn evenly and in the centre. On the general grounds of style the type may be assigned to the fourth century. From its resemblance to one of the Muses on the Praxitelean basis from Mantinea it is attributed to the Praxitelean school. It is not, however, an absolutely original work. The origin of the type is to be seen in the Athena Campana,12 which is a copy of a fifth-century work. A certain element of eclecticism is introduced and the type seems thus rather academic than inspired. Also it has a bronze character, and the original was probably brouze. This is perhaps strange for a Praxitelean work. But, though marmore felicior ideo et clarior fuil, fecit tamen ex acre pulcherrima opera. The number of replicas and the excellent style incline us to assign it to a good school, and to consider it a wellknown work. The circumstantial evidence is in favour of its Praxitelean origin, yet there are the above plausible reasons against it. It may thus be attributed to a follower of the Praxitelean school, perhaps to one who came under the master's influence rather than to a direct pupil.

3. Youthful male Torso. (Pl. XVII. 3) H. 1.26 m. Greek marble. The head, both arms from shoulders, and the right leg from the knee are lost. The left shin is bailly damaged, and there is a deep cut (modern) in the right side of the stomach. Farther the drapery on the left side has been broken away, and that on the right badly damaged. Part of the neck is left, and has been reset.

The right leg seems to have been almost entirely free. The left leg rests on the toes and ball of the foot, and forms the main support of the figure. The head looked upwards to its left. The right arm was dropped and the left raised. Over the shoulders is a chlamys, which flies out behind, and hangs down in moving, wavy fidds. The body is very flatly rendered; all the muscles are slurred, and blended together. Little or no detail is distinguishable. The anatomy of the body is merely hinted at; and the bones are entirely masked by the soft flesh. The body is long and narrow; and the chest is not very broad. The pose, however, is graceful, and well treated. In comparison with the poor execution of the body, the drapery is

Now in St. Petersburg; Annihung, op. cir. p. 18, Fig. 4.

excellently handled. The texture is very well indicated, and the folds and movements are well rendered. Since the drapery is so good, and since the figure is supported at the back by a tree-trunk, we may readily assume that the statue is a copy of a bronze. The position of the figure and the movement of the limbs all indicate that it is rising up into the air. immediately suggests the Ganymede of the Vatican, it attributed to Leochares. There is some similarity in movement between them, but the position of the limbs is not the same. So it is impossible for the two figures to be derived from the same archetype, and the Turin figure cannot be a Ganymede since the eagle is lacking.10

Stylistically the Turin statue may be assigned to the later fourth century. The excellent working of the drapery, the graceful movement, the soft rendering of the slight form, all favour this date. The slurring of detail in the muscles of the body and limbs is probably due to an unskilful copyist. There does not seem to be any similar figure yet known and consequently it is at present only possible to suggest rather than definitely determine its place in the history of Greek art.

The nearest parallel to the treatment of the torso is the Apollo Belvedere. There is in both the same rhythmical handling of the limbs, and the same gliding motion. We have already compared the attitude of the Turin figure to the Ganymede, and thus the three fall together into one group. But Ameling, is the latest to examine the Apollo Belvedere closely, believes that it has nothing to do with the Ganymede, whose artistic descent as regards the head he traces from the Turin head discussed above.17 Perhaps an even closer parallel to the Turin figure is to be seen in a dancing Satyr at Naples, which has been assigned by Furtwangler to Leochares 18 because of its likeness to the Ganymede. In both the body is slim and graceful, the limbs have a gliding motion, and the whole figure rises into the air. Consequently we should probably follow Ameliang in separating the Apollo Belvedere from the Ganymede, and group with the latter the Naples Satyr, as already done by Furtwangler, and this Turin figure.

4. Head of athlete. Pl. XVL) H '27 m.; depth of head '20 m.; distance between outside corners of eyes 10, from chin to forehead 175 m. The top of the nose is restored. The head, which is Greek marble. very square, was turned up to its left.

The eyes are deep set, rather under the brow, which is well modelled, flattening out at the ends, but is heavy and fleshy. The mouth is short, and the lips drawn in a little and very firm. The jaw is square; the chin is dimpled, and prominent. The hair is in short, grained locks brushed flat a little along the forehead, and in disorder over the rest of the head. There are

<sup>11</sup> Holbig . 387.

<sup>&</sup>quot; It might possibly be a dancing figure : if so it cannot be a dancing satyr since the torso is not satyric in character.

H.S .- VOL. XXVI.

in Rev. Arch. 1904, il. jr. 825 mpg.

W Op. vil. je 334; r. abova p. 236.

is Satyr and Pergamon, p. 14, Pl. III. 2.

<sup>10:</sup> Dittehke, 151.

short whiskers before the ears; and the bar above the brow is strongly marked. The work is fresh and clean, and has every appearance of being either a second-rate original, or else a fair copy of a good marble original.

This head, though it in some respects resembles the Apoxyomenos, is far more developed in style, especially as regards the bair. The nearest parallel is perhaps the head of the so-called "Jason" or athlete fastening his sandal." To this, as represented by the Fagan head in the British Museum, it has considerable likeness. This type shows the Lysippean style of the Apoxyomenos more developed, but not so far developed as the Borghese warrior. Thus between the two extremes of the Apoxyomenos and the Borghese warrior we may place the "Jason" and the Turin head. The latest date is more or less fixed, since it is almost universally agreed that Agasias, the artist of the Borghese warrior, flourished at the end of the second and beginning of the first century B.C. If we follow the usual view and regard the Apoxyomenos as Lysippean, the Turin head would be dated to the later third century. On the other hand, if we, with Percy Gardner, believe the Apoxyomenos to be post-Lysippean, the date for the head under consideration would be the first half of the second century.

 Statuette of priestess of Isis. (Pl. XVII. 2) H. 40 m. Greek marble. The left forearm and the whole right arm are broken off; and the whole figure is badly weathered. The back is unworked.

The priestess rests on her right leg, the left leg being free. She wears sandals; and is clad in the usual long robe peculiar to the cult of Isis. This seems to consist of a wide sheet-like robe wrapped round the body so that the two upper are crossed at the back and drawn forward over the shoulders to the breast. There they are knotted together in connexion with the upper edge of the robe, which is drawn up to meet them. But it is not clear how the two ends are knotted together with the edge. In this case the end over the left shoulder has slipped free, and leaves the left breast bare. The left arm is raised; perhaps it held a sistrum. The head is thrown back and the eyes are closed, as though in intoxication or religious frenzy. The smooth grained hair is parted in the centre, bound by a fillet, and haugs down all round in corkscrew curls. In the centre of the fillet is a hole, probably for the attachment of the badge of Isis. The cheeks are fat, and the eves very deeply set, but so softly rendered as to lose all definite form. The treatment of the small mouth is similar. The figure is well built, well modelled, and in a natural pose; and on the whole the statuette is a dainty and life-like

Katalog, 287\_

= J.H.S. 1965, p. 234 map.

<sup>&</sup>lt;sup>36</sup> Michaelis, Auctent Marbles, p. 184, 85, illustrated.

E. A. H. Smith, Cat. iii. 1785, other replicas: hand and torse, Athens, Acropolis Minsung, Ath. Hath. 1895, Pl. IX., 1, E. F. 783, 734; hand, Jacobson Coll. 1981s; torse only, Louvre, Brune-Brunktonno 67; Manich, Furrwingler.

To the same group we can probably assign two athlets status in Berlin, Reservething d. out, Skulp, 489, 471; c. Ameling, Rom, Math. 1905, p. 148, 6gs, 5-7.

The Egyptian type and the Greek rendering of the statuette immediately suggest an Alexandrian origin, since it bears no relation to the usual Roman statuettes of Isis and her priestesses. There is a small class of somewhat similar Graeco-Egyptian statuettes that has been discussed by Amelung. There are a Hermaphrodite at Florence. a priestess at Ince-Blundell Hall, and another priestess formerly at Catajo. This group is noticeable for the fine modelling of the figures and the natural treatment of the drapery. The fine folds of the thin garments cling round the body, emphasizing its beautiful forms, and falling naturally to the ground, add a delicate grace to the statuettes. The three statuettes also show modelders in the treatment of face and node portions. But in none of them is the morbiders so marked as in the Turin figure. In it the modelling of the face, especially the eyes, is so soft that no decided lines are visible, and there is thus no definite division between individual features in the face.

As also definitely Graeco-Egyptian in character and therefore Alexandrian in style, Amelung has grouped four heads, a female bust in the Uffizi, a head formerly in a dealer's hands in Rome, 27 a basalt head at Vienna, 30 and a less important head in Berlin. To these we may add one of the two heads in the Magazzino Archeologico just published by him the head of an Egyptian princess wearing a cap made of a vulture's skin.25 These five all seem to show an Egyptian character in a Greek rendering like the statuettes; still they do not possess the morbideza so noticeable in the latter. But a large number of small heads and statuettes of Egyptian provenance possess this soft character. The we must not assume, especially since several of the Graeco-Egyptian works do not show it at all, that this morbidessa is the essential and distinguishing characteristic of Alexandrian art. On the contrary, it seems, as I have elsewhere tried to show,24 to have been a feature common to all Greek art of the later third century B.C. It is, as Amelung says, derived from the Praxitelean style and we find it not only in these Alexandrian works, but in sculpture from other parts of the Greek world. The best example is the famous female head from Pergamum w; we find it also present in the Artemis from Tralles at Vienna, 17 the Aphrodite at

<sup>3</sup> Bull, Com. 1897, p. 110 seeq.

Uffini, Sala della Incrintoni, Dittachka, 275.

Furtwangler, Status Lopices, p. 33, 34, Pl. V.; Michaelis, Ascient Marbles, No. 24

E. F. 57, Ameliang, op. sit. p. 122, 1: similar figure Vations, Max. Obc. 654; Anashing, Pat. Max. Cat. Ph. 81.

Ameling, Fabror d. c. Aut. c. Ployecs, 157; replicas Louves, Chiras, 1074, 3474, No. 62; Armit, Portretts, 219, 220; Rome, Pal. Grantiniani, Bult. Com. 1994, Pl. 111.

<sup>#</sup> E.F. 179, 180.

<sup>&</sup>quot; von Schneider, Album d. Aut. Sammlung,

PL XIII.

Heichreibung d. ant. Study. 331; Armit. Fortrals, 217, 218.

<sup>\*\*</sup> Bull Com. 1897, P). VIII.; Helhig\* 735.
\*\* E.g. those referred to by Amsling, Bull Com. loc. ed.; et. Botti, Music of Alexandrio, 1. 23, 30, 31, 33, 34, 36-39, xiv. 9, 12, 14.

<sup>&</sup>quot; Brit. School Annual, ix. p. 236 soor.

<sup>=</sup> Jactl. Com. 1897, p. 158.

Colligam, Pergence, p. 204; ef. the Disrysus published by Variatil, J.H.S. 1890 p. 187.

woo Salmonder, op all. Pl. VI.

Olympia,28 the Warren head from Chios,29 and to some extent in the Approdite from Tralles at Smyrna,20

And so, though we may assign the Turin statuette from its character as a priestess of Isis to the Alexandrian school and date it from the later third century, it should be remembered that its style, the tendency to softness which it illustrates so well, a was common to all Greek art of that period.

ALAN J. B. WACE.

<sup>4</sup> Olympia, iii. Pl. LIV.

Burlington Fine Arts Club, Cal. Eshib. E.-V. 1342, 1343, Greek Art, Pl. XXXII. # Cf. Pruhl, Re

<sup>&</sup>quot; Furtwinglet, Masterpieser, p. 397, Fig 174;

<sup>4</sup> Cf. Pfuhl. Rom. Mitth. 1904, p. 1 sepp.

## THE MIDDLE MINOAN POTTERY OF KNOSSOS

## [PLATES VII.-XL]

In the sketch of the pottery of Knossos that appeared in the Journal of Hellenic Studies for 1903, pp. 157-205, it was sought to give a general account of Knossian ceramic development on the basis of such finds as were to hand

up to date.

Since then, however, further evidence has been accumulating such as serves to bring into clearer outline particular phases in development. This happens to be specially true of the Middle Period. The object, accordingly, of the present paper, which I undertake by kind permission of Dr. Arthur Evans, is to examine the new ceramic materials in so far as they are illustrative of the successive phases of Middle Minoan ceramic development.

The results of a special examination of the pottery found in Early Minoan deposit up to date are to the effect that the two kinds of ground, respectively light and dark, coexist from the very beginning of the use of paint in Cretan ceramics.1 Thus it can no longer be a question of the one kind of ground supervening upon the other at any later stage but only the problem of the relation to each other, throughout the course of their collateral development, of two kinds of background which co-exist from the beginning and so co-exist in virtue of a technical principle which is as old as any decorative art. This principle is that any kind of design is itself possible only through a difference in shade between the design and its background. The design, whatever its colour, must appear lighter than its background or darker, And given a certain set of media the difference of dark or light in the background conditions the difference of light or dark in the design. Decoration with one kind of ground may come into greater prominence at certain periods than that with the other, but as a matter of design in its widest aspects both kinds of ground will always be found in course of time to emerge into co-existent use to some degree, because the architectonic alternation of light and dark grounds is a primary necessity in the development of decorative art.

From this point of view the Early Minoan Age may be regarded as the era of the genesis of colour-technique itself and the two kinds of design smerge alongside of each other and develop into their simplest difference from each other, as monochrome design respectively on a light and on a dark ground. The time of fusion which marks the first transition to polychrome effects of style has not yet come and there is as yet no true synthesis of light on dark with dark on light such as later formed the true achievement of Minoan decorative art. When we come to the great days of the Middle Period we see that the highest decorative synthesis is one in which light and dark grounds alternate regularly with each other.

Before we enter at all on any discussion of Middle Mineau Ceramics we must bear steadily in mind one result of a careful examination of Early Mineau wares, which is to the following effect:—There is no difference of style corresponding to the difference between light and dark grounds, for the style of ornament in any given phase of development is the same whether on a light or on a dark ground.

This primary unity of style which is indifferently of the same simple geometric character, whether it develops in the medium of light or of dark grounds, is a traditional survival into the Middle Period on which every later

pluse of development is founded.

1. In the early part of the Middle Minoan Age the elements of ornament are found to be still largely derived from the repertory of the previous era, and like these they are prevailingly geometric in character. Alongside of these, however, other elements begin to emerge which are indicative of a new tendency, that towards curvilinear variation in the designs. This double fact of partial identity with and difference from the prevailing manner of the earlier period as a whole becomes clear at once if we glance at Pl. VII. The fragments were found in the Basement with Monolithic Pillars, B.S.A. ix. 18, Fig. 7, in the same deposit in which in 1900 was found the Dove-Vase, J.H.S. xxi 79, Fig. 1, which accordingly also belongs to the early part of the Middle Minoan Age. The deposit underlay the floor-deposits with fine polychrome ware, to which belong the fragments in J.H.S. xxiii. Pl. VII., as also the fine cup, \(\phi\). Pl. VI. 4.

Here many of the fragments present hardly more than adaptations of a geometric repertory that itself goes back to Neolithic times, and has survived continuously throughout the Early Minoan Age. In this connexion fragments 1-5 and 14-16 are particularly instructive. There is not a combination here that does not repeat well-known Neolithic motives; for example, the sets of parallel bands forming zigzag angles in No. 1, the triangles filled out with white in imitation of Neolithic white-filled punctuations in Nos. 3 and 4.

It is important to note that next to the dull cream-white the colour that most prevails in these early polychrome fragments is a red pigment that varies between vermilion and terracotta, and which is itself an element in

Our Pis, VII. and VIII., like Pis, V., VI., VII. in J.H.S. unit, are after drawings by Mr. Halver Boggs.

colour-design that is seen already if sparingly in use in the Neolithic Age. In the Early Minoan Period it is seen as a rare variant for white in light-ondark design in deposits of the same era as that of Hagins Onouphrios. Fragment 2 shows us this red combined in our scheme with white in a geometric design that is itself of Neolithic origin. The geometric motives in the same colour in 3, 4, and 5 are equally primitive in manner and in origin. The orange variants in 7, 8, 11, 12-15, 17, 18, with their growing tendency towards a purer yellow are later in origin than the primitive reds with which they are seen here in contemporaneous use. The earlier elements in the colour repertory are not superseded by their later variants and rivals, but tend to survive alongside of these. And the variants derive their interest in the design from the differences of tone they introduce in colour-schemes whose polychrome character is essentially the outcome of a natural combination of later with earlier elements of colour. When once a colour has come into use it tends to survive in all combinations in which it has ever formed an element. The elements only die out with the disintegration of the polychrome combinations themselves of which they have formed a part, and this itself is but an organic process in which the process of the integration of the colourelements is reversed

In the process of combination of later with earlier elements of colone with which we have here to do, it is curious to note that the elements of geometric design that preserve the earlier Neolithic traditions are apt to survive in their original colours. Thus, for example, the simple Neolithic motive of fragment 1, the dotted triangular fields of fragments 3 and 4, and the lattices of fragments 4, 7, 11 are all elements from the Neolithic repertory that have survived continuously in their original white. The early motives in red and black present us with a similar story of survival. Thus red next to white tends to reproduce in their original character the greatest number of motives from the Neolithic repertory of ornament as seen, for example, in the red parts of fragments 3 and 4. Black-glaze design in its original genesis has involved a transformation, in its development of light grounds, which tends to reproduce the geometric elements of ornament in a guise which is more frankly Early Mineau. In this case, even when the motives themselves are actually Neolithic, the treatment of them tends towards a freedom in which the rigidity of Neolithic tradition is seen in process of gradual disintegration through translation into media which, in their colour-effect of dark design on a light ground, were a transformation into the opposites of what they were in Neolithic technique.

The beginnings of curvilinear design, as compared with the geometric tradition, represent a recent element which is entirely lacking in the Neolithic Era, and which so far has only been observed in Early Minoan deposit of the maturest period. In the beginnings of the Middle Minoan Period the use of simple curvilinear motives appears already to have become traditional, though in strict subordination to the still dominant geometric style. Among these curvilinear motives the wavy bands in dull creamwhite, in fragments 5 and 19, form a very early element in design, and there

are analogies for it in the pottery of Egypt of the prehistoric age.<sup>3</sup> The cable claim of fragment 20 appears advanced in comparison, and yet it occurs on geometric pottery from Gournia belonging to the close of the Early Minoan Age.

From the point of view of polychrome development, however, in its relation to traditional survival the most interesting fragments are Nos. 17 and 18 from the neck and shoulder of jug-vases of the same shape as those from Knosses in the B.S.A. ix. 95 Fig. 65, p. and 97 Fig. 66, b, d, f, q. The decoration on the neck is the same for our fragments and for the vases, that is, sets of parallel rim- and neck-bands in a lustrous brown-to-black glaze on a highly polished buff clay slip on terracotta red clay, hand-made. But, instead of the plain dark-on-light 'butterfly' motive on the body of the vases, our fragments have the elaborate light-on-dark polychrome geometric design illustrated in the plate.4 Another similar fragment from Knosses, Pl. IX. 6. shows for the body a conservative style of light-on-dark polychrome geometric decoration with a traditional survival of time-honoured Neolithic and Early Minoan motives closely approaching that on fragments 3 and 4. At first sight it might seem as if the vases represented by the fragments with the polychrome design on the body must necessarily be later in date than the plain vases with the simple dark-on-light butterfly motive and that our fragments represented the process by which light-on-dark polychrome design gradually displaced the simple dark-on-light. That this is not so becomes clear on consideration of the fragments shown in Pl. IX. 1-5, which are from the same deposit as the fragments on Pl. VII. The second fragment here is the neck and shoulder of a vase with 'butterfly' motive dark-on-light which in its lustrous brown-to-black glaze, polished buff clay slip, and terracotta clay, is exactly similar to the polychrome fragments. With the Dove-Vase again came out the interesting fragment of a jug with polychrome body of PLIX, 6 referred to above as of one class with PL VII. 17, 18. It was only in 1903, however, on complete excavation of the Basement with Monolithic Pillars, with the discovery of the floor-deposit with the ware of Pi. VII. underlying a later floor with fine polychrome M. M. II. pottery, that the true context to which belongs the ware of Pl. VII. was realized. Then also the complete similarity between Pl. VII. 17, 18 and Pl. IX. 6 made it clear that this fragment and with it the Dove-Vase from the trial-pit of 1900 really belonged to the same deposit and so to the same M. M. L context as the ware on Pl. VII. The vases represented by our fragments as well as the Dove-Vase are, however, besides so similar in clay, glaze, and general technique, as to have been probably from the

Middle Minora Age.

The spiral repeated as a unit but not as a chain also occurs in the perhisteric pottery of Egypt and it is possible that it is from here it trifted into the Aogean. It recurs in the early geometric pottery of Palaikastre and Genenia. The chain of connected spirals occurs apparently first in the Aogean at some time early in the

<sup>\*</sup> The M. M. I. builterfly motive itself is the direct descendant of the hatched triangles in pairs joined at the apex so common in the previous Third Early Minous Period. See B.S. A. x. 198 and 199, Fig. 2, d. f.

same workshop, if not by the same hand. And this again would only show that the same potter worked simultaneously in light and in dark grounds.

The interesting and curious set of fragments fitted together as No. 3 On Pl IX, belonging to a jug like No. 2 but larger, from the same deposit and probably also from the same workshop, with similar lustrous dark glaze design on a polished buff clay slip and clay, may of itself serve to show how popular was the light-ground style at the period to which the dark-ground polychrome fragments on Pl. VII. belong, and how far we are from any real transition from the one style to the other. The subject of the design in its naturalistic character is so advanced that were it not for the company in which the fragments occur we should be tempted to assign it to a much later age. To the right appear the heads (in one case the upper part of the body as well) of three Cretan wild goats with curving horns moving in profile to the right.4 Behind them also moving to the right is a curious beetle-like creature with tail. The figures of the goats are in silhouette with incised outlines filled in entirely with lustrous black glaze in a manner that recurs in the black-figured style of archaic Greek vase-painting. The beetle is painted in a very free manner without outlines. The glaze, the polished buff clay alip and the clay are exactly like those of the polychrome fragments which combine a dark with a light ground. The painted batched bands of the two fitted lid-fragments of No. 4 in matt cream-white on a brown glazy surface and the incised hatched bands of fragment I seem at first sight much too primitive for such company as No. 3 with the Cretan goats. Yet there is no doubt that they belong to the same context, though on the other hand each of them in a different medium preserves into this period a favourite Early Minoan design which itself has its origin in the Neolithic Age. The survival of such early elements alongside of new factors in the development of design is very characteristic; and fragment I has above and apparently also below the incised band a double pair of parallel bands with a meander band between them, in the dulf-coloured early matt cream-white, which is a new combination. Here again, if we take fragments 1 and 4 together, we have an illustration of the law already referred to, that the elements of design that preserve the earlier traditions tend to survive in the earlier media. In the Neolithic Age the white pigment is never found disjoined from the incision. This process of disintegration and separation takes place in the Early Minoan Age. But the separated elements do not die out. In accordance with the organic law of survival, each of the elements gets a new lease of life on its own account in a new environment. In the early part of the Middle Minoan Age the examples in question show us such separated elements still surviving each on its own account, and entering into ever new combinations in which each again, in accordance with the primitive law of organic survival,

<sup>&</sup>lt;sup>2</sup> Compare the seal impression, B.S.A. ix. 20, Fig. 9, for a wild goat with somewhat similar curving borns. Our earlier picture has

already in common with the original seal the profile movement to the right which is so popuiar in Missan Art.

continues in the tendency to preserve its own identity in the midst of all the growing diversity of a polychrome age," The white lattices of Pl. VII. 4. 7. 11 furnish a striking illustration of this tendency.

The principal shapes presupposed by the fragments on Pl. VII. can best be understood by reference to Pl. IX. 6-15. Here the two-handled spouted jugs 13, 14, illustrate the shapes presupposed by the fragments 1-7, 9, 10 on Pl. VII. The cups 9-12 on Pl. IX. give the general shape presupposed by the fragments 11-16 though the latter are of much finer quality. Spout 6 with a light ground presupposes a case with a polychrome body and dark ground like the fragments 17 and 18 on Pl. VII. The shape of vase presupposed by all these spouts is figured in R.S.A. ix, 95, Fig. 65, p, Fig. 66, b, d, k, f, q.

The vases shown in Pl. IX, 6-15, which are from the same deposit as the fragments on Pl. VII., once more illustrate the general phenomenon, on which we have been insisting, of the complete parallelism in time of light and dark grounds in the Middle as in the Early Minoan Age. Vase 14 here has a dark ground, but vase 13, of similar shape and in precisely similar glaze and clay, has light-on-dark panel bands all on a light ground. This panel arrangement of vase 13 with the light ground dominant is as near a synthesis of alternating light and dark grounds as we ever come to at this early stage of the Middle Minoan Age. The light neck with dark polychrome body presupposed by fragment 1 on the same plate is not a synthesis but a compromise. The fragmentary cup 7 from the same basket looks distinctly advanced for the context in which it occurs. It is decorated with crescents arranged in horizontal rows alternating cream-white and vermilion-red, all on a very fustrous black glaze slip on terracotta-red clay, which is handmade. The crescent design is the same as that of the cups, J.H.S. xxiii. 176. Fig. 3, 1-3. But whereas the crescents in the case of these cups, in accordance with their later character, seem to have been stamped, the crescents on our cup betray certain irregularities in the design which show that they were painted on by band. The combination of vermilion and white is also an early characteristic.

One of the outstanding features of Middle Minoan ceramics is the large use made of relief-work of different kinds to enhance the richness of the grounds in polychrome decoration through the added play of light and shadow. It is accordingly only an accident that on Pi. VII, we have only one specimen representing this tendency, fragment No. 13. This is part of the rim of a cup probably with a foot, like fragment 16. The cup, which is hand-made, has two parallel orange rim-bands on a lustrous purple-black glazo slip forming a broad rim-band on the inside of the cup on finely sifted dull buff clay. Below the orange rim-bands appears a series of serrated ridges going obliquely up right in very fine buff clay paste which has been laid on over the glaze. From the North Quarter of the City comes a two-handled

<sup>&</sup>quot;The pyxis found along with the jugs with 'butterfly' motive shown in H. S. A. ix. Fig. 65, 5, affords the enrichs spectrule of a survival into

this period of the original Neolithic white-filled incisions alongstide and independently of their differentiated elements.

spouted hole-mouthed jug, which is of great importance in this connexion on account of the context in which it occurred. This vase has its shoulder decorated with an elaborate system of parallel ridges going obliquely down loft, then right, then left again on the fine buff surface of the clay. The rulged zone has going along it at intervals groups of three parallel bands going down left then right in herring-bone fashion, in a thin purplebrown semi-lustrous glaze like that which covers the rest of the vase inside and out. This jug belongs to the same company as the very characteristic series of vases shown in Pl. X. In this connexion has to be mentioned the rich deposit of vases with blistered surfaces 'a la barbotine' found by the Italians at Hagia Triada in the chambers of a building just outside and above an important tholostomb with Early Minoan remains." These vases like the building in which they were found are later than the tholos and its vases, while their special affinities show them to belong to the same early part of the Middle Minoan Period to which we have assigned the series of vases shown in Pt. X. from the North Quarter of the City at Knosses. Thus item 7 here represents a vasa which in type and general style of decoration comes very close to the vases of the barbotine style referred to. The sets of oblique parallel panel bands are common to our vaso and to many of the barbotine vases of Hagia Triada. On the Early Minoan prototypes of these vases, the panel bands in question are arranged vertically as in B.S.A. x. 201, Fig. 3, b. The relief-decoration of our wase in the form of knobs is however, much simpler than the blistered surfaces of the Hagia Triada vases, and the knobs indeed survive into a period when the barbotine style itself was no longer in vogue. This fact of survival comes out very clearly when we find the same motive so copiously used on the characteristic knobbed pithoi of the Third Middle Minoan Period both from Knossos and from Phaestos." In this connexion Pl. X. vase 1, is of special interest. This jug allows us the knobs combined with the "trickle" motive in the First Middle Minoan Period in a manner which is intrinsically the same as that illustrated by the knobbed pithor which themselves again belong to the end of the Middle Minoan Era. The large white dots of items 5 and 7 recur alternately with red and black ones on the blistered ware of Hagia Triada and both in white and more rarely in red and black represent a favourite motive in the Second Middle Minoan Era. The rope-hand in incised relief of items 3 and 4 is a very favourite collar motive in the early part of the Middle Minean Age, but it does not seem to have had any later history,

Istitute Lombardo, xxi. 248-252. The tholosvases, Tav. ix. Figs. 21, 22. The burbotina vases, Tav. xii. Fig. 16. Company also for Kunsson that two cups with bilintered surfaces in J.H.S. xxiii. 167. Fig. 1, items 5. 6. which appear in a similar M. M. I. context.

See B.S.A. v. 10-12, Fig. 5; XI. 218, unite 2; A cm, Id. Loub, Jor. ell. Tay. xi. Fig. 29.

Most. stat. xiv. 699, Fig. 0 shows the fragment of a rase in the same barbetine style as our Pl. VII. 13 and the vase from the North Quarter of the City at Knosses referred to above. The rippled appearance of this particular style suggests an earlier phase in the processof development, which later became stereotyped in the painted rippled surfaces of M. M. HI. and I. M.I.

For this tholes tomb see Memorie del v.

while in origin it can have had no real connexion with the elaborate ropodecoration of the knobbed pithoi of a later time just referred to. The vases of Pl. X. illustrate very well the alternation of light and dark grounds so characteristic of the Middle Period as a whole.

The survival into this era of the tradition of incision apart from its earlier white filling is in itself a very interesting phenomenon, and reference has already been made to the tendency of such surviving elements to persevere in their own identity in the midst of all the change and diversification of phenomena which are so characteristic of the Middle Minoan Age. The extreme of the tendency of such separated elements of decoration to preserve their own identity is well represented so far as the technique of incision is concerned, by the one-handled jug shown in PL X. 8, which has no other ornament than the systems of batched incised bands on the brown-red surface of the clay. The context to which the vase belongs is shown not only by the characteristics of its companions in the second and third rows below it, but by the recurrence of such knobbed specimens as Nos. 9 and 10 next it, which again are but common variants of the knobbed vases of Pl. X. 1, 7. The vases of Pl. X are all from the same North Quarter of the City.

On Pl. XI 1-20 are represented vases and fragments of vases found (1905) on an important floor of a house to west of the Palace belonging to the same early part of the Middle Minoan Period as the floor-deposit to which belong the fragments on Pl. VII. Adjacent on the north side was a house with the rich deposits of M. M. H. ware illustrated in the Report, B.S.-I. x. Fig. 4. This M. M. II house had cut into the area occupied by the earlier house, obliterating its deposits yet without touching the parts outside its limits to the south occupied by the vases of Pl. XI. 1-20. Several of the types from the floor-deposit of the Basement with Monolithic Pillars recur here and do not call for special remark. The 'fruit-stand' vase, dark-on-light, No. 12, is, however, a new shape for this period at Knossos, and is interesting as representing in an intermediate phase of development the prototype of the tall fruit-stand vases which are so frequent in the immediately following era (M. M. II.).19 The undulating band which finishes the decoration of the bowl below is frequent, both light and dark, in the Middle Period and recurs as the base-decoration of many vases of the Palace Style in the Late Minoan Age.

Decoratively the most interesting vase from the deposit is the handsome jug Pl. XI. 1, which is reproduced in colour in B.S.A. xi. Pl. I. This jug is essentially of the same type as those with the 'butterfly' motive and their polychrome variants though considerably larger in size. The elaborate polychrome design is concentrated on the upper half and particularly on the shoulder of the vase. If Just below the middle is a broad band in

<sup>&</sup>lt;sup>10</sup> See Hogarth-Welch, J.H.S. v.i. 87, n. 58, Figs. 15, 16; B.S.A. iz, 308, Fig. 8.

<sup>&</sup>quot;I It is possible new to conjecture that this was probably also the case with the polychrome

vases just cited in comparison which are prosupposed by the curious fragments shown in Pl. VH. 17, 18 and Pl. IX. 6.

madder-red bordered above and below by a narrow band in matt creamwhite. Below this again half-way towards the base a very broad band is 'reserved' in the pale buff ground of the clay. Above and again below the main design is a rather wide vermilion band. On the neck is a collarband in madder-red bordered above and below by a narrow matt cream-white band. Above this, on neck and rim respectively, is repeated the vermilion band motive of the body of the vase. On the spout is a band in matt The top of the handle has narrow oblique bands in matt cream-white, going up right, in imitation of a twisted basket handle. On the shoulder as fundamental element in the main design is a zigzag series of double axe-like figures with the contour in madder-red bordered on either side by a narrow cream-white band, and having the central field filled out with dots in matt cream-white which are reminiscent of the Neolithic white-filled punctuations.12 The continuous interval between the units in the zigzag series is filled out with a winding meander-band in vermilion. All on a purple-tinted lustrous black glaze slip on terracotta-red clay with red and black sand-like particles in it, hand-made. Height 28 c., base diameter 19 c., shoulder diameter 22 c.

The kind of process of disintegration by which the stiff geometric or quasi-geometric motives of an earlier age were rendered fluent, and in turn induced the tendency to further fluency of curvilinear treatment in detail, is well illustrated by this vase. The double axe-like figures look like imitations of metal or bone inlays, and of course the form and decorative arrangement of such inlays were largely independent of the rigid geometric tradition. Thus, given the shapes of these and their serial oblique relation to each other, the outcurving ends of one fit in with the incurving sides of another in a way which conditions the curvilinear meander character of the connecting vermilion band, at the same time that this meander seems to condition their oblique relation to each other in a regular alternation of outcurving ends with incurving sides.

The tendency to concentrate the main design on the shoulder, which comes into prominence at this time, is one that grows with the elaboration of the sense of architectonic principles, which themselves in the last instance are conditioned by the inherent forms of vases themselves, these being dependent in their turn on the kind of use to which the vessels are put. The upper part of the vase as it swells outward to the shoulder is by its nature more important than the lower, and its visual prominence naturally marks it out for the

Compare the white punctuations of Pl. VII. Items 3 and 4, and of Pl. IX. 6 and, for the continuity in tradition, Early Minoan examples like B.S. A. x. 199, Fig. 2, h. j. and Neolithia originals, such as J.H.S. xaili. Pl. IV. 15-17, 21, 25, 27, 30. The cup, ib. Pl. VI. 2, shows the white punctuated band motive of the Neolithic fragments 15, 16 surviving into the M. M. II. Period. The riginal in white of the alternate bands on this cup looks equally early in origin, and it seems at length in attain

to decentrive finality once for all as rim-band to the beautiful cup ib. Pl. V. Z. Compare the Neolithic fragments ib. Pl. IV. 99, 29, 31. The lines of white prescriptions in a single series of these fragments secur in the M. M. I. and II. Perioda, as in Pl. VII. 7, 8, 10 and Pl. VIII. 5-5, 11, 18, 20.

<sup>&</sup>lt;sup>12</sup> Polychrome double are like figures arranged vertically occupy an analogous position on the beautiful M. M. II. bowl shown in J.H.S. zziii. Pl. VI. 3.

main part of the design. Thus in the distribution of space the upper field receives a greater portion of this than the lower, and the dividing line tends to come below the middle rather than above. In this way the inartistic impression which is invariably created by an exact bisection of the field is avoided through the visual subordination of the lower to the upper part.

This architectonic distribution of horizontal zones on a vase may in its origin be the result of influences that are largely adventitions and unintentional in their relation to the aesthetic result. Thus the horizontal zones may very well owe their actual origin to the ease with which horizontal bands are produced on a vessel revolving on a rotating disc in course of decuration if not of actual manufacture. Later, as we know, the use of the wheel must have given a powerful impetus to the use of this kind of zone-decoration; but the wheel as such cannot explain the origin of such design, if this origin is traceable back beyond the first use of the wheel. However the result may have been produced, yet the result itself when once achieved is one that henceforth survives largely in virtue of its nesthetic fitness. It is thus not a little remarkable that this system of decoration now fully inaugurated in this earlier part of the Middle Minoan Age, though in apparent antagonism to the opposing principles of vertical panelling and asymmetrical arrangements that were so current in the great polychrome period, survives henceforth as a guiding principle of ceramic decoration through all the later Minoan periods, and after that into the Classic Age of Greece. This decorative principle has indeed already attained to perfect balance in the beautiful and elegant M. M. II. cup shown in J.H.S. xxiii. Pl. V. 2.

If the different sets of vases and fragments of vases described above be taken together, the historical conclusion is possible that they all belong to one period: the earlier part of the Middle Minoan Age (M. M. I.). This is proved partly by their constant occurrence immediately underneath deposits—often floor-deposits—of the Second Middle Minoan Period and sometimes above deposits of the Early Minoan Period in general, partly by the constant occurrence, along with the variants, in all the deposits, of typical vase-forms such as (1) the ring-foot and footless cups with broad band below the rim respectively light-on-dark or dark-on-light: (2) hole-mouthed two-handled spouted jugs dark-on-light and light-on-dark with characteristic geometrico-curvilinear polychrome tendencies; (3) spouted one-handled jugs of the type with 'butterfly' motive and its polychrome variants.

The principal deposits of this period identified up to date are:-

(1) The deposit of the Dove-Vase in the Basement with Monolithic

Pillars (1900 and 1903) Pis. VII., IX.

(2) The deposit found in what we are now able to identify as the M. M. I. Well underlying a basement of the East Wing of the Palace to west of the Court of the Spout (1901 and 1902). The series shown in J.H.S. xxiii, 167. Fig. I is from this well-deposit.

(3) The pit-deposit found in 1903 under the floor of a passage opening northwards off the East Pillar Room. See B.S.A. ix. pp. 94-8 and

Figs. 55, 56.

(4) The important floor-deposit of houses belonging to the North Quarter of the City of Knossos and affording a clue as to the great expansion of the city in this direction in the early part of the Middle Minoan Age, Pl. X.

(5) The important floor-deposits of a house on the west borders of the West Square of the Palace which contained the vases of Pl. XI, 1–20 (1905).

(6) A set of vases and vase-fragments found (1905) in a pit-repository immediately underlying the floors of the M. M. II. constructions in the north-east region of the Palace in which in 1902 were found the fine

polychrome vases J.H.S. xxiii. Pl. V. 1, 2, 3; Pl. VI, 1, 2, 3.

All these deposits, with the exception of that of the well, are either flooror pit-deposits. As such they are indicative of the occurrence of a catastrophe
through which they got covered up before they could be removed. As the
vase-types are uniform with variants in the different deposits in which they
are found, and as the sudden arrest in development indicated by the abandoned floor-deposits is found to be exactly simultaneous in regions so far
apart as the Palace and the North Quarter of the City, we can conclude with
safety that the catastrophe was a universal one, and that the different
deposits simultaneously submerged by it represent the stage in development
arrived at in Minoan ceramies at the close of the period which ended with
this universal catastrophe.

With the 'reservation' of part of the light buff ground of a vase towards making it serve as a colour-element in polychrome decoration, which is exemplified by the broad horizontal buff band on the lower part of the vase last described, we have an instance at this early period of a technical finesse of ceramic decoration, which from this time onward is destined to play a prominent rôle in the history of Minoan vase-painting. Henceforth throughout the polychrome period the widest use is made of this curious technical device, and in the Late Minoan Age the practice of 'reservation' becomes so wide-spread as at last entirely to supplant the use of light colour on a dark ground. But it is not merely in such simple instances as this band-motive that even in this early part of the Middle Minoan Age the practice of this device is exemplified. We may not call the light-ground necks of the polychrome vases represented by fragments 17 and 18 on Pt. VII., or the light panels alternating with dark ones of Pl. IX. 13, true instances of such 'reservation'; yet in any instance in which the 'reservation' has been consciously designed by the potter to have its special colour effect as an element in the polychrome scheme, the decorative function of the device is manifest. Fragment 19 on Pl. VII. is indeed in this and in other respects so elaborate in its decorative treatment as to be a surprise in the context in which it occurs. It presents a vertical panel combination of a light with a dark ground in a manner which is no longer a compromise with earlier fashions, as was the case with the style of vase to which belong fragments 17 and 18, but a true synthesis of the two styles. In such a synthesis the dark ground may be dominant or the light, or again the dark and the light parts of the ground in relation to the more linear parts of the polychrome ornament may appear in such balance as themselves to be integral functions in the scheme of decoration. This kind of synthesis was the highest achievement of the

succeeding era.

2. On Pl. VIII. we have a series of polychrome fragments with a light ground from the 'North-West Pit.' In comparison with the earlier series of fragments on Pl. VII. several determinate differences emerge. (1) The geometric elements of design appear subordinate or latent. Curvilinear motives are dominant. (2) The colour-combinations are seen at a higher organic stage of development in relation to light as to dark grounds, whether these occur as separate unities or in synthesis. (3) This synthesis itself presents the highest stage in achievement, and it reflects historically the polychrome palace style of this period, in which light and dark grounds must have appeared in regular synthetic alternation in the finest decorative schemes in the wall-paintings as in the ceramic art of the period.

That we are a considerable way advanced beyond the manner of the earlier period becomes clear by a mere glance at the fragments on Pl. VIII. This advance in style, however, is never at the expense of any violent break with earlier fashions. Thus we need not be surprised to find in the wheel and the latticed circle of fragment 3 a pair of old favourites that have survived continuously from Early Minoan times and are trying to disguise themselves now in the polychrome finery of the day. This has been with only very partial success in the case of the prim-looking latticed circle. It has not really changed colour at all, but has retained its original dark hue alongside of a double in white that is also found putting in a very early appearance in the Middle Period. There is no doubt, however, that

the white lattice in itself has an older history and that it is truer to its

Neolithic connexions than the black lattice that begins to appear alongside of it in the Early Minoan Age, it

In the case of the greater number of the fragments on Pl. VIII. it can be said at once that the design is dark on a light ground. In the case of others, as for example, Nos. 4, 11, 17, 18 light and dark grounds are so equally balanced in one complex polychrome design as to be a true synthesis of both kinds of ground. In others again, as 12, 16, the ground as a whole may be regarded as dark with light ground appearing in details as part of the design. The dark ground is also dominant in Nos. 14 and 15, though here again the design itself may be regarded as a wide dark border on a light ground. In any case we have to distinguish between grounds that are light or dark as a whole and those that are light or dark in details. Grounds that are light or dark in detail become themselves intrinsic elements in the design and this new possibility leads to new combinations in the use and distribution of the colour schemes.

Thus, to take light-ground details. In these the light buff intervals alternating with dark ones, as in fragments 4, 12, 16, 17, 18, become ipso facts a new colour-element in the design itself. Again, to take dark-ground elements.

<sup>&</sup>lt;sup>14</sup> For a white latticed circle of this kind at the M. M. I. stage see B. S. J. Ix. 95, Fig. 65, q.

<sup>&</sup>lt;sup>10</sup> For the lattice motive at the Early Minoau stage see B.S. J. x. 198-9, Fig. 2.

In these correspondingly the dark-ground intervals alternating regularly with the light ones become combined with the light design upon them in such a way as to form one of the colour-elements in this design itself. Thus fragments 4, 5, 10, 12, 14, 16, 17, 18, give us combinations of black with two other colours for the design, if in these instances the ground is regarded as light. In fragment 4 we have combinations of three design-colours in synthesis whether the ground is regarded as dark or as light.

In fragments 13 and 17 we have an entirely new finesse in colour-effect. Both have boss-ornament in relief, the highest points of which allow the buff of the clay to appear through in a manner which repeats the high metallic

points of light on bronze originals.

Finally the colour-schemes themselves have become richer in their repertory of tones. As the fine creamy buff surfaces with or without slip, polished or unpolished, emerge more and more as an element in the designs, the dull cream pigments tend to transform to a paler white. The vermiliontinted orange has beside it a paler yellow, the vermilion-tinted reds subordinate themselves to pale pink, terracotta-red, cherry-red, red-brown and purplebrown. Paler or warmer tints of buff clay and variations towards purple-brown or metallic purple-black glaze become consciously sought out in the grounds. The imitation of metallic high lights in relief may appear as points of white colour on dark glaze grounds, whether in the flat or in relief, or sometimes of the pale buff of the clay itself allowed, as in the instances referred to above (fragments 13 and 17), to appear through the lustrous black glaze of the ground. This variety of resource in the use of colour, in combination with the new variety introduced by means of the growing tendancy towards curvilinear design, is what distinguishes the ceramic art of this period from the earlier manner illustrated by the fragments on Pi. VII. The great underlying fact that is common to both periods is the phenomenon of the coexistence of light with dark grounds and this regular co-existence of light with dark grounds has been already traced continuously from the borders of the Neolithic Era through the Early Minoan Period to the time of which we speak. Of this continuous co-existence of light with dark grounds we have an emphatic illustration on Pl. VIII., the fragments on which with a light ground have been on purpose selected out of a context in which light and dark grounds regularly occurred together. We never have a period in which dark grounds appear alone, though on the other hand light grounds never emerge into emphatic predominance until the Late Minoan Age. Yet even at that later time the dark grounds are seen surviving as a subordinate factor and they never altogether die.

The greatest achievement of the Middle Period was undoubtedly the synthesis of the two styles to which reference has been made, and if we know more of the wall-painting of this era we should probably find that this mature polychrome ceramic style was but one phase of a movement towards the synthesis in decorative art of light and dark grounds, which must have received its highest expression on the walls of the Earlier Palace itself. It is not likely that the alternation of light and dark-ground panels was an invention of the potter alone, though it may very well have been one in which he shared in one common movement of decorative art in which the wall-painter took the lead. The invention was one that was inevitable when once it was seen that the buff clay could equally with the black glaze become an intrinsic element in polychrome design.

The principal ceramic finds of this period at Knossos identified up to date are:—

- (1) The floor-deposits of the 'South-East Kamares Area' or area of the Basement with Monolithic Pillars where this deposit was found (1902) superimposed upon the earlier floor-deposit, to which belongs the pottery of Pls VII., IX. J.H.S. xxiii, Pls. VII. 4, VII. are from this deposit, See B.S.A. viii, Pl. I. 'Earlier Palace'; ix. 18, Fig. 7.
- (2) The floor-deposits of the 'North-East Kamares Area '—a system of rooms, underlying the ground-floors of the North-east quarter of the Palace, in which (1992) were found the fine polychrome vases J.H.S. ib. Pls. V., VI. 1, 2, 3. See R.S.A. viii. Pl. I. 'Earlier Palace.'
- (3) The floor-deposits from the early basements underlying the ground-floors in the area of the Room of the Olive Press. J.H.S. dt., Figs. 4, 5 (1902), and B.S.A. ix. Pl. II. (1903).
- (4) The floor-deposits of the 'North-West Kamares Area ' (1901 and 1903) and the 'North-West Pit' (1904). The pottery of our Pt. VIII. is from the latter deposit. See also B.S.A. ix. Fig. 75; x. Figs. 5 (1), 6.
- (5) The floor-deposits of the Middle Minom House beneath the West Square (1904), B.S.A.x. Figs. 4, 5 (2). This house in the southward direction had partially cut into the pre-existing house to which belong the floor-deposits of Pl. XI, 1-20.

The simultaneous submergence of these floor-deposits was probably the result of a general catastrophe. See  $B.S.A. \times 16$ .

3 The decline of the polychrome style and the gradual relapse towards simple monochrome design on light and dark grounds is a tendency of the later Middle Minoan Age, which succeeded the general catastrophe referred to above.

The forces which tended to hasten this decline, and simultaneously to inaugurate a new phase in the development of style, have not to be conceived as influences acting from without but as integral moments in a process of disintegration and reconstruction working from within towards which the catastrophe referred to furnished only the occasional cause. This catastrophe did not bring with it the elements of an entirely new style from the outside; it simply acted as a precipitant to a process of development from the inside which was already latently active when the catastrophe came.

The polychroms style in its intrinsic character had grown to its full fruition as the mature outcome of a tendency in which differences of colour were regarded in the light of their decorative effect in their relation to each other. There was no more thought of imitating nature in this tendency than there probably was in the case of the textile fabrics or the decorative parts of the wall-paintings of the period. Colours have harmonies of effect in

relation to each other, quite independently of the juxtapositions in which they are found in nature, and the polychrome art of the Middle Minoan Age is as practical an illustration in point as we have many ages later in the similar principle underlying the polychrome decorative art of Greece. This underlying principle is the same indeed, for that matter, over a much wider field, and is as independent of the mere imitation of nature in a tapestry of Ancient Egypt or a polychrome vase of Crete as in an old Persian carpet or an antique glass of Venice.

Considering the relatively limited scale of colours at the disposal of the Minoan ceramic artist, we have seen this principle of polychrome decoration in the mature period of the Middle Minoan Age reach a high degree of claboration.

It is just towards the end of this era, however, that we see the beginnings of another tendency coming definitely into play, namely, that towards the portraval of natural objects. And, as is apt to happen when a growing tendency comes into one sphere of action with one that has already reached full fruition, the new tendency as an evolutionary movement enters into antagonism with the old and strives to oust it from its field of activity. There is no doubt that the new tendency received great impetus through the catastrophe to which reference has been made above, as having occurred at the close of the great 'polychrome' period. After that catastrophe we find polychrome processes in ceramic technique in course of rapid dissolution, while we see the new tendency in full swing, and by the time we again have floor-deposits on a universal scale the new principle is so fully established in ceramic art as almost to have ousted the other.

In decorative wall-painting, on the other hand, the new tendency could effect a reconciliation with the old, for here the growing feeling for nature was able to receive expression for itself only within the limits set by the polychronic principle itself, which in the old-established usage of the time conditioned the general effect of all wall-painting in its decorative function as a whole and in detail.

That it was otherwise in ceramics was the outcome of special conditions and limitations of the art which are absent in the case of wall-painting. (1) Limits of space, which practically do not exist for the decorative wall-painter, tend to compel the vase-painter, in his preoccupation with the portrayal of motives from nature, to substitute such motives for the more purely decorative ones on the more prominent parts of the vase, and to give these so much scope as tend to reduce all decorative free-play to minor details on neck and base. Thus we find these more purely decorative motives surviving just where they are not in the way. The extreme of this tendency is seen in the vases with hily-design from the South-East Magazines shown in B.S.A. viii, 100, Fig. 51 (one of which again; ib. x. 7, Fig. 1) and J.H.S. xxiii, 189, Fig. 8.

(2) Once we have the portrayal of natural objects, such as flowers, which becomes so rife before the close of the Middle Minoan Age, it soon becomes apparent that a scale of colours, which in their relation to each

other were capable of producing polychrome effects of great beauty, was quite inadequate towards the reproduction of the natural colours of objects, Thus green, for example, which is the first necessity towards the remiering of leaves and stems, and which we find in use with the wall-painter, did not exist in the colour-repertory of the vase-painter. The ceramic artist must thus have felt that with his limited scale of colours he could not produce the same natural effects as the wall-painter with his. On the other hand he must have been equally conscious that natural objects such as flowers did not look natural in a polychrome guise which was not that of nature. The only solution of the colour-difficulty in the circumstances was a compromise in the shape of a convention. Thus the tendency came into being to make all natural objects either simply light on a dark ground or dark on a light ground. The beginnings of this process go back to an early period and we have, for example, the Cretan goats of Pl. IX 3 already appearing as simple black silhouettes on a light ground. Items 1 and 2 on Pl. VIII show us graceful frond and leaf motives, with polychrome details, used with the fine sense of decorative effect so characteristic of the Second Middle Minoan Period. The fine panel jar from Phaestos again, Mon. Ant. Line. xiv., Pl. XXXV, a, shows us an intermediate stage in the process, in which, on a vase that is still polychrome, tall reeds appear on alternate panels monochrome dark on a light ground. The twisted cable pattern in white on the stem, so far removed from nature, only serves to show how much the vase-painter was still under the influence of the decorative traditions of a polychrome style that itself was in process of passing away. The lily-vases referred to above show us the full accomplishment of the process in a monochrome design that is entirely light on a dark ground and yet entirely natural in its treatment of forms.

The finest vases of the Temple Repositories show us the same stage in development. Perhaps the most remarkable example from this series is a two-handled piriform amphora, with plant and flower design light on the usual semi-lastrous purple-black glaze ground. On either side, front and back, in an oval panel is a plant-design with large spreading pointed heart-like leaves. A very freely rendered design of graceful tulip-like flowers on tall sinuous stems is fittingly adapted to suit the narrower interval left below the handles on either side. The free breadth of treatment combined with natural grace that characterizes the decorative style of vases like these was hardly ever again attained to in the ceramic art of a later time, but that the phenomenon was not an isolated one is shown by examples in wall-painting like that of the Crocus Gatherer, and in the art of faience like the crocus panels of the Votive Robes, and the rose- and fern-leaves of the vases in the same material from the Temple Repositories themselves.

(3) In the course of such processes of change any latent weakness inherent in the organic fibre of earlier tradition that is itself in course of dissolution is found all at once to have come rapidly into full view. It has already been suggested that the general catastrophe, which occurred at the beginning of this period, gave a forcible impetus to the processes of change. and after that catastrophe it is equally apparent that the old polychrome decorative technique never again appears at the same high level of achievement as in the previous era. All the polychrome innovations of the finest period vanish with such rapidity after the catastrophe, that we can hardly account for the disappearance except on the hypothesis of a general decline at this time in the methods of polychrome technique itself. A fixity in the durableness of the colour-media, which is only of relative moment to the wall-painter, was something of paramount importance in ceramic art. And any falling off in the technical art of fixing the colours on the body of the vase was in itself sure to lead to a rapid falling off in the regular use of these. Thus it probably is that the oranges, yellows, pinks, and crimsons of the great polychrome era are found so entirely to have vanished, and that in the deposits belonging to the end of the new period we have still represented only the original whites and reds; and alongside of these the fundamental dark of the glaze and buff of the clay.

This double fact respectively of the disappearance of the more recent elements and endurance of the earlier functions in the repertory of colours is itself a curious phenomenon of survival. The elements from the old colour repertory that survived into this period were those that had longest established themselves in continual use. Thus white and red survive continuously till now from the Neolithic Period, while the buff surfaces and black glaze ornament and ground are an equally continuous inheritance from

the Early Minoan Age.

Coincident with this survival of earlier elements in colour, at the expense in ceramic art of colour-elements of later origin, is the survival in these colours of certain ornamental motives of earlier origin, at the expense of ornamental motives of later origin in later colours. Thus the spiral, itself of Early Minoan origin, survives till now almost invariably in its original white, and only very rarely in red or black. Similarly the Early Minoan cable-hand is still true to its original white, and if it is not that it is sure to be in red or in black. The vase from Phaestos referred to above has going down the dark panels a chain of circles joined by transverse tangents that, in a simplified form, has survived in its original white from the Early Minoan Age. Again the early white and red horizontal bands on the subordinate parts of vases are a commonplace survival into the ornamental repertory of this period.

This coincidence in survival between certain functions of colour and of ornament is one that rests upon the mutual relation in which they appear together from the beginning. Otherwise it is not easy to account for the survival of colours like white or red, that from the point of view of durability have in themselves no distinct advantages over the colours that have vanished from the repertory. Those colours survived with the ornamental motives in

W For a red and a black cable partern of this kind at the M. M. H. stage see the polychrome curps in J.H.S. skill. Pl. V. 3 and Pl. VI. 4.

<sup>\*\*</sup> Compare the latinoid strates joined by transverse bands of the E. M. III. Period in B.S.A. x. 199, Fig. 2, from J. L.

which they traditionally appeared on those parts of a vase, and under those circumstances in which they were not in the way. Thus we have the timehonoured horizontal bands, the spiral chains, and cable-bands on the upper and lower parts of vases, whose main field may be engressed with the bold innovations of a recent time.

This phenomenon of survival of earlier elements at the expense of later ones is itself, however, a process of disintegration that is at the same time a process of readjustment to new conditions. The earlier elements in colour as in ornament preserve their original characteristics, but once having through disintegration become detached from their traditional environment they are now able to enter into new connexions. Thus, for example, the large spiral band in white on the shoulder of the jar J.H.S. sxiii, 177, Fig. 4, is a bold decorative variant for the branch-wreaths of Fig. 5 on the next page. On the Phaestes vase again the old-world chain of circles connected by transverse tangents of Early Minoan origin in white on the dark panels performs the same decorative function as the new-fangled plant motive in black on the alternate panels with a light ground.

Colours, however as media have a much greater capacity for entering into new combinations than the ornamental motives that survive in them. The traditional conservatism of ornament in its development is one that always tends to persist in its original characteristics, while the colours that have survived as media with the ornament, provided they are true to their original shade, can easily disconnect themselves from the combinations in which they have survived in order to enter into new ones. The large and growing use at this period of white in the rendering of flower and plant forms, at the entire expense of every other colour except the vanishing rad and the glaze-black whose use becomes so dominant in the next era, is fully illustrative of this adaptability of a surviving colour-medium towards entering into new combinations. On the vase from Phaestes and its interesting companion we find this vanishing red still appearing, now in the primitive cable pattern, now in graceful blossoms and blossom-sprays.

The tendency is already mascent in vases that are still polychrome, for example the branch-bands of the jar already mentioned (J.H.S. xxiii, 178, Fig. 5). At this stage however, the horizontal arrangement of the white branches as a band still betrays the influence of limits set by polychrome architectonic traditions and it is only the vertical panel that affords exense for an arrangement more in accordance with nature. In the vase from Phaestos referred to above we have this panel arrangement, but the reedmotive appearing black on the alternate light panels, the artist has fallen into the curious temptation of further defining his stems, by means of a cablechain in white going up them which has nothing to do with nature though decoratively it has its full justification in the touch of colour-variety it intreduces into the bare black of the stem. Indeed the panel arrangement, alternately light and dark, of this vase has made possible a happy union of time-honoured decorative schemes with the recent motives from the world of plants and flowers which makes us entirely forget questions of origin and

tendency for the sake of the fine polychrome breadth of treatment and architectonic balance of the whole. The equally beautiful companion to this vase (ibid. b) shows hardly less mastery of architectonic treatment in the decorative subordination of polychrome blossom-sprays and palm-like leaves to a spiral system in white, in an oval panel on a dark ground, whose early connexious are equally forgotten in the fitting grace of the general design. At the end of the Middle Minoan Age, as represented for example, in the pottery of the Temple Repositories, we have still got the tradition of the alternate vertical panels light and dark and of the oval panels on a dark ground, but the rendering of plants and flowers in white has become so natural as at first sight to seem quite independent of all previous tradition in ornament, and this is true to a still greater degree of the hily-vases already mentioned.

There is however, a further moment in colour-survival that requires remark. We have seen white surviving with certain ornamental motives, and then detaching itself from its connexion with these and entering into new combinations in the rendering of flower and plant forms. But this is not entirely at the expense of the original connexions. The old connexions are not entirely given up because new ones are formed. The white in its traditional connexion with the spiral for example, survives alongside of the new combinations in which it appears. The white spiral is of much earlier origin than the white branch, but on the jars referred to above the spiral and the branch in white already appear as decorative variants of each other. At the end of the Middle Minoan Age the white spiral is still popular as the main decoration of a vase, alongside of elaborate decorations in white from nature, as on the outside of the 'candlestick' in J.H.S xxiii. 189, Fig. 8, 2, which occurs in the same context as the beautiful white lilies of the vases ib, 7, 10.18 The black double of the spiral in white (ib, 3) comes more and more to the front at a time when the growing monochrome tendency makes simple dark-on-light the one natural alternative to light-on-dark design. In the Temple Repositories, again, the large spiral decoration in white on the pitcher in Fig. 1, h, is so effective as to seem little out of place alongside of the natural twigs in white on a dark panel ground which we have in the same series, d. In these repositories the spirals in white continue still to be more popular than the similar ones in black, but the same deposit shows us a case, f, in which a white spiral band on a dark ground on the shoulder may be regarded as more than balanced by a black spiral-band on a much wider light ground on the body of the vase.10

This example, with its spiral systems indifferently light on a dark or dark on a light ground, is of itself sufficient to illustrate at this stage a

vase from Phaestes referred to in previous passages. Have we not here indeed the original of the spiral chain their surviving on its same account stoughtle of that from the Early Minoan Age?

For the 'candiestick' see also 5.8. d. viii. et. Fig. 51, 2; 82, Fig. 52.

to The spirals here appear as black discs joined by pairs of transverse tangents just we as if we had to do with the double in black of the similar motive in white of the panelled

universal law of the development of style in Minoan ceramics. The style of decoration and the repertory of ornament at any given stage in development are the same whether on a light or a dark ground. Beginning with the Early Minoan Age there is never at any stage any real conflict of motives on a light with those on a dark ground, but only of later motives with earlier ones, whether the grounds are light or dark. In the period at which we have now arrived, that conflict took the form of a struggle between the more



Fig. 1.—Minder Minoan Pottery from Knosses. Temple Repositories: M. M. HJ. (After R.S. A. ix. 50, Fig. 26.)

recent tendency towards portrayal of nature, and the earlier motives from the rich traditional repertory of polychrome ornament, which we see in such brilliant bloom in the ceramic art of the previous era. It is not a conflict of styles disparate in historic origin, as if with the light grounds some influence from without had come to be superinduced upon the native influences from within; for the light grounds have been there from the very beginning of the use of paints in ceramics, and the new influences, if anything, are more

marked on the dark grounds than on the light ones, as the lily-vases have taught us. The conflict is one of a later phase of style with an earlier one, whether the grounds are light or dark; and that conflict in its full antithesis was that between an earlier style of polychrome ornament, which has nothing to do with nature though it has its own legitimate function in decorative art, and a later natural style. This later style, in its convention of simple light on dark or dark on light grounds, threatens the legitimate function in cerumic art of a polychrome principle, which under more favourable conditions still continued to play its usual rôle in the wall-painting of the period.

In this conflict it need not be surprising that many time-honoured elements of ornament managed to survive into the new era, in an environment from which the polychrome colour-functions of more recent origin were themselves in rapid process of elimination. This survival of decorative ornament alongside of the growth of natural motives means no real or intrinsic disparateness in style itself, since decorative ornament in its own sphere is as essential to style as trath to mature in its particular province. The unity of style that results, however manifold may be the moments that make it up, is one whether the decoration is light or dark, and if in the next age the light grounds ultimately triumph under particular and partly accidental circumstances, in the natural course of development the style that results is one that emerges out of conditions that previously were common to light as to dark grounds. In the clash of the processes of change, the conservative tendency of tradition in the development of armament is apt to receive an exaggerated expression of reaction in the work of individuals as of particular schools, just at the moment when the new influences are winning the day; but from this phenomenon to argue to disparateness of origin as regards different phases of style, that may come into simultaneous contrast at the same time that they are successively unfolding themselves into synthetic moments of each other, is to ignore a principle of antithetic movement that is the very life of all development. It is only a particular form of the same fallacy to argue from the special unity of style that is characteristic of a certain given phase of ceramic art, against the multiplicity of tendency at an earlier stage which has gone to shape that particular unity of style. conception of the unity of style which excludes this manifoldness of tendency, simply because we happen not to know all the successive phases in the process of development, is simply an abstraction of our own making.

It is, however, a more serious hindrance to scientific progress when long-established prejudice comes in to darken knowledge. Thus, for example, it has been long assumed after Furtwängler and Loeschke that what it has been usual to call the Mycenaean style in ceramic art was the invention of Achacan or Mycenaean Greeks. It seems labour in vain to insist on the bearing of the Cretan evidence to the effect that the beginnings of the style which is most characteristic of the ceramic art of the Mycenaean Age are found in process of development in the Aegean, at an era preceding by many ages the first appearance of any people of Hellenic race and speech on the

mainland of Greece.

The underlying assumption, whether consciously acknowledged or not, is, at bottom, to the effect that the supposed 'Achaean' racial movement which, with reference to the mainland of Greece, is regarded as having originated the Mycenaean Civilization was an Aryan one from the north. And this assumption has become one of those fixed ideas in archaeology for which it is difficult, by the ordinary normal processes of reasoning, to come to terms with conclusions from actual excuvation. Such conclusions make it ever more apparent that the racial movement which resulted in the Aegeo-Mycennean Civilization was a pre-Aryan one from the south, and that consequently for such a movement the islands became early centres of racial development, which gave them the natural antecedence and precedence in influence over what for such a northward movement was the more outlying littoral of Greece and Italy and Anatolia. The most recent results from mainland Greek centres so far apart as Argos and Orchomenos are quite in harmony with these conclusions. They reveal to us a matt technique in ceramics, which is as wrongly instanced to argue a real disparity of race in the earliest period which preceded all preponderating racial movements from the north, as it is rightly used to strengthen the conclusions as to the outlying tardative character on the continent of a ceramic art whose great progressive centres were in the Aegean world under the growing paramount influence of Crete.

The principal deposits of pottery that up to date have to be assigned to

the closing period of the Middle Minoan Age are the following:

 A group of vases including one with a graffito inscription found in 1901 in an earlier basement underneath the ground-floors in the south-west

region of the Palace. See B.S.A. vii. 10-11, Fig. 4.

(2) The ware found in 1901 in the second cist from the west end of Magazine 4 in the West Wing of the Palace. See 6. 47, Fig. 14 and J.H.S. axiii. 185, 188, 190. This isolated find in the light of later discoveries has now to be shifted back from the position assigned to it in these citations into the same company as the other groups here enumerated. The two-handled piriform jure of this cist are exactly like those of the Temple Repositories.

(3) The pottery of the North-East Magazines from the excavations of 1901. See B.S.A. il. 72-4, Fig. 24. From this deposit we have to exclude the pottery found along with a steatite vase-stand (see ib. 74) outside the existing west wall of the Magazines, all which belonged to a later deposit formed after the Magazines themselves had got covered up. The "trickle" decoration so common on many of the vases from these magazines is very characteristic of the closing period of the Middle Minoan Age, though its origin, as we have seen, goes back to an earlier time. See ib. Fig. 24, "streaked vases in heaps," and our Pl. XI. 21-23. Into the same context comes the pottery from the floor-deposits of the North-East Hall and adjoining store-closer. In the store-closet was found a pithes with "trickle"

The allocation to Magazine 2 in the passage and Figure cited in the text ness upon on oversight.

decomtion and rope pattern like those of the knobbed Pithoi of the East Magazines. There is now conclusive evidence that this whole complex of apartments inclusively of the North-East Hall or Light-well and its staircase as far south as, though probably not including, the corridor going east-west to north of the system to which belongs the Room of the Olive Press, had got covered up before the beginning of the Late Minoan Age. See B.S.A. xt. 210.

(4) The ware found in 1902 in the deposits immediately underlying the palace floors in the area of the Room of the Olive Press and superimposed on floor-deposits with pottery of the finest polychrome class in the same area.

See J.H.S xxiii, 179, 180 with Fig. 6, 181 and B.S.A. x. 6, 8.

(5) The important series of large knobbed pithol with characteristic trickle decoration found in 1902 in a series of early magazines in the area north of the Court of the Oil Spout in the East Wing of the Palace. See B.S.A. viii. 10-11, Fig. 5; x. 10-12, Fig. 3. These magazines, whose foundations were laid deep down, had cut into the south end of the older system with rich floor-deposits of the finest polychrome ware such as that figured J.H.S. xxiii. Pls. V. and VI. 1-3. See also B.S.A. viii. Pl. I. MNO, 11-12, Earlier Palace. The frequency of the trickle decoration on these pithol is in chronological harmony with its frequency on the jars of the North-East

Magazines (above, group 3).

(6) The series of pithoi and other vases including those with liftes found in 1902 in the South-East Magazines. See E.S.A viii, 91, Fig. 51; J.H.S. xxiii. 189, Fig. 8. Later ceramic discoveries justify the withdrawal of this series from the company in which it appears in the above citations and the bringing of it into one context with the groups enumerated here. See B.S.A x. 7, Fig. 1 and 8, 9, Fig. 2. The two-hundled type of tall slender jar with the lifes is essentially the same as that with the "trickle" decoration of the North-East Magazines. The only difference is that the jury of the North-East Magazines still have their circular hole-spout with lip, whereas this spout in the case of the lily-vases has dwindled to a flat button. This difference in itself, however, does not compel us to put the lily-vases later than the others in date, for apart from the similar stratification, the continuation of the real spout in these circumstances in which it is of practical use, alongside of the mere ornamental reminiscence of a spout in those other circumstances in which its practical use has disappeared, is one of the commenplaces of ceramic traditional survival. The real spout occurs in the same doposit alongside of still other instances in which external appearances are kept up, though the spout itself when looked into is false, as in the case of some of the pithol. These two-handled sponted pithoi indeed are probably themselves in origin derived from the two-handled spouted hole-mouthed jug so characteristic of the Middle Minoan Age in general. The mediating type probably was a larger kind of two-handled, hole-mouthed jar like those of J.H.S. ib. Figs. 4, 5. The spout, which was still of practical use in the case of a medium-sized jar, could only have the function of an ornament for a pithos too large to be tilted or raised from the ground for pouring purposes.

- (7) The ware from the deposit in the area of the Basement of the Monolithic Pillars in which in 1902 were found the two vases with inscriptions in ink described B.S.A. viii 107, 108, Fig. 66. This deposit belongs to a stratum superimposed upon that which contained the finest polychrome ware, while adjacent at a higher level were the floor deposits of the Palace. To the same deposit belonged a small pithos with 'trickle' decoration like that of the Knobbed Pithoi and of the jars of the North-East Magazines.
- (8) In the 'North-East Kamares Area' ('Earlier Palace'), above the floor-deposits with fine polychrome egg-shell ware, occurred a later stratum, again with clearly marked floor-deposits which contained, among other characteristic pottery, a series of tall slender two-handled jars, lying on their sides, of the same type as the tall graceful jars, with handles below the shoulder, of the cists adjacent to the Temple Repositories, and the other similar jar with graffito inscription from the South-West Basement. See B.S.A. ib. 117, 118.
- (9) The remains of a large knobbed pithos and vases found along with it in the Walled Pit No. V. in the region of the Palace north of the northwest angle of the Central Court (1901 and 1903). See B.S.A. ix. 23, Fig. 11, V.; 26, Fig. 13; 27. Fig. 14; x. 10. This knobbed pithos with its 'trickle' decoration was of very similar character to the knobbed Pithoi of the East Magnaines.
- (10) The important series of vases found in 1903 in the Temple Repositories and in 1904 in the connected system of three cists which run north from the Repositories towards the Antechamber of the Throne-room. See Fig. 1 and B.S.A. ix. 48, Fig. 25; 40, 50, Fig. 26; 51; x. 13, 26-34, Pl. I. The vases of the Temple Repositories were rich in naturalistic motives in the shape of plants and flowers, whose fine feeling for style faithfully re-schood that of the embroidered flowers on the panels and borders of the dresses of the Snake Goldesses from the same deposit. There is further an exact resemblance to the fine style of the lily-vases of the South-East Magazines. The Temple Repositories and connected cists had spouted two-handled jars with 'trickle' decoration, like those of the North-East Magazines and other vases like the jar with graffito inscription and its companions from the early basements in the south-west region of the Palace and like the tall handsome jars from the 'North-East Kamares Area' referred to above (group 8).
- (11) The ware found in 1904 in the latest stratum underlying the pavement of the West Court of the Palace and of the Corridor of the Procession. See B.S.A. x. 6, 10, 11. The ware found underlying the pavement of the West Court belonged to the floor-deposits of a house built on the ruins of that which contained the fine polychrome ware represented abid. 15, Fig. 4. Here occurred types of vases, with a purple-black glaze ground, resembling those with lilies from the South-East Magazines, and with a buff ground like those having 'trickle' decoration from the North-East Magazines. The pottery found underlying the Corridor of the Procession

again contained the type of the jars with 'trickle' decoration from the North-East Magazines, while their environment brings us back once more to the similar deposit from the adjacent South-West Basement, which yielded the vase with graffito inscription and its companions (above deposit 1).

The general catastrophe indicated by the simultaneous submergence of the floor-deposits just enumerated may be conveniently taken as marking at the same time the end of the Middle Minoan Age.

DUNCAN MACKENZIE

## THE LAST SCENE OF THE EUMENIDES.

AT the end of the play, when the Eumenides are to be ushered to their cave beneath the Areopagus, Athena joins to the procession a special escort of her own temple-servants, and sets forth the procession with these words:

| αίνω τε μύθους τωνδε των κατευγμάτων     | 1022 |
|--|------|
| πέμψω τε φέγγει λαμπάδων σελασφόρων      |      |
| είς τους ένερθε και κατά χθονός τόπους   |      |
| ξύν προσπόλοιστα αίτε φρουροθσια βρέτας  |      |
| τούμον, δικαίως δμμα γάρ πάσης χθονός    |      |
| Θησήδος έξίκοιτ αν, εύκλεης λόχος        |      |
| παίδων, γυναικών, και στόλος πρεσβυτίζων | 1028 |
| φοινικοβάπτοις ένδυτοίς έσθήμασι         | 1029 |
| τιμάτε, και το φέγγος δρμάσθω πάρος.     | 1030 |
| όπως Αν εύφρων ήδ' όμιλία χθονός         |      |
| το λοιπον ευάνδροισι συμφοραίς πρέπη.    |      |

The unsolved questions in lines 1028-1030 are two:—first, how to punctuate them, that is, who are to be the wearers of the crimson cloaks, the Escort or the Eumenides themselves: and second, what is the reason for the crimson colour? Neither question, purhaps, may seem to be of great importance; but Aeschylus is not a poet who does things at random; he is apt to have more than superficial meanings; and enquiry may, I hope, reward us with a new significance.

On the punctuation, which determines who the wearers are, I will say this to begin with; that if the meaning were a noble troop in crimson raiment, Greek would require the addition of έρ; εg. Plut. Anton. 44 έρ τῷ στρατηγικῷ φοινικίδι προελθών, Ar. Lys. 1140 λαμπρὸς ἐρ φοινικίδι, Soph. Trach. 613, Eur. Hec. 464, Barch. 973, Aesch. Ayam. 1270, Pers. 280 πλαγκτοῖς ἐρ διπλάκεσσιν. We should be obliged, if this were the meaning, to suppose either the omission of a previous line containing ἐρ, or an adjective 'arrayed in'; or else, with Hartung and others, to suppose that ἐρδυτοῖς is a mistake for ἐνδυτῶν. But upon either of these suppositions we shall be left with τιμάτε baldly by itself, 'do honour to them,' without any specification of the

As I would read instead of super: but this immaterial here,

T have explained this much mistaken phrase in the Classical Review, 1902, p. 435.

honour, which has been generally felt to be unlikely. Some therefore have conjectured that the specific honour was contained in a passage lost before  $\tau\iota\mu\hat{a}\tau\epsilon$ , 'honour them,' e.g. 'with the name Euperlões'; while Paley supposed  $\tau\iota\mu\hat{a}\tau\epsilon$  to be an error for  $\pi\rho\alpha\beta\hat{a}\tau\epsilon$  'proceed.' But (though this reading is adopted by Wecklein in his school-edition) it is most improbable that any scribe, finding in the text of a tragedy  $\pi\rho\alpha\beta\hat{a}\tau\epsilon$ , should mistake it for  $\tau\iota\mu\hat{a}\tau\epsilon$ .

On the other hand, the words φοινικοβάπτοις ἐνδυτοῖς ἐσθήμασε τιμάτε honour them with crimson robes' hang naturally together, as ε.g. Agam. 913 θεούς ται τοῖσδετιμαλφεῖν χρεών (with the purple broideries), and prima facis therefore it would appear that that phrase is correct, and means that the Eumenides themselves are to be arrayed in crimson.

Why then crimson? Their proper colour, as Chthonic Powers, is of course that of mourning, ustava or dava, as opposed to white, which belongs to the Divinities of Heaven, represented by Apollo; so much is certain, even if we were not expressly told it in the play itself. This question was touched by Karl Ottfried Müller in § 86 of his Dissertation on the Eumenides-that admirable work by a truly admirable critic. He has been showing (§ 80) that the Erinyes were not in the earliest ages independent deities. Their function is a chthonic one, and was included originally among those of the Earth-Mother, who in ancient times was willely worshipped under the title of Demeter Erinys. When they disengaged themselves and became separate personifications, it was natural that they should still retain some ritual attributes in common; and among the common attributes that Müller looks upon as traces of original identity is this one of the crimson robe: 'Again, at Athens the Erinves were clothed in blood-red garments (Eum. 1029),2 and so also at Syracuse Demeter and Cora, as Thesmophorian Goddesses, ware purple robes, which were put on by persons about to take some dreadful oath.' The passage he refers to is Plut, Dio 56: Callippus was required by the women to swear the Great Oath: ai δ' ήξίουν αύτον όμοσαι τον μέγαν όρκου, ήν δὲ τοιούτος καταβάς είς το τῶν Θεσμοφόρων τέμενος ὁ διδούς τῆν πίστιν ίερων τινων γενομένων περιβάλλεται την πορφυρίδα της θεού. και λαβών δάδα καιομένην απόμνυσι.

We may compare with this the robing in Achilles Tatins viii. 13 of a girl who is to undergo an ordeal of virginity: ἐστόλιστο δ' ή Λευκίππη τῆ ἱερᾶ στολŷ ποδήρης χιτάν, ὁθόνης ὁ χιτών (of course κλίτε linen), ζώνη κατά μέσον τὸν χιτώνα, ταινία περὶ τὴν κεφαλὴν φοινικοβαφής, ἀσάνδαλος ὁ ποῦς. And this again can hardly be distinguished from the raiment worn by those who consulted the oracle of Trophonius: Maximus Tyrius xiv. 2 ὁ δεόμενος συγγενέσθαι τῷ δαιμονίῳ ἐνσκευασάμενος ὁθόνη ποδήρει (λευκή ἐσθήτε ἐσταλμένοι says Philostratus Αροίλ, viii, 19) και φοινικίδι εἰσδύε αι ὕπτιος κατὰ στομίου στενοῦ. Α crimson ταινία was in some cases—probably in

robes were designed, which were sees cerated to them upon the institution of their culture by Athems."

I He supposes this to have been an established piece of ritual, § 89: 'In all protability there were also carved wooden images of the Erioyes here. For these images the purple

many—part of the dress worn by priests; the priests of Eleasis are one case, and another may be seen in Diels, Sibyllinische Blotter, p. 121. We are told by the Scholiast on Apoll. Rhod. i, 917 about those initiated in the Samothracian Mysteries that περί τῆν καιλίαν οἱ μεμνημένοι ταινίας ἄπτουσε πορφυράς: a passage used by Lobeck Aglamphannes 371: 'Ιεροστολικό et Καταζωστικόν, quae Suidas recenset, ad unum eundemque locum de vestitu sacro sive initiatorum sive simulaerorum divinorum pertinere videntur, in quo quantum studii posuerint veteres indicio sunt Stolistae seu Hierostolistae, qui a Plutarcho vecantar Ἱερόστολοι de Is e. ΠΙ. 104, unde nomen ἐεροστολικό derivari commodo potest. Καταζωστικόν fortasse a cinguli sacri traditione nomen habet, quo recens initiati tum in Samothraciis mysteriis tum in alias ornari solebant. Το this part of the Όρφικά belonged the passage quoted by Macrob. Sat. 1, 18, 22: Item Orpheus Liberum atque Solem unum esse deum oundemque demonstrans de ornatu vestituque eius in sacris Liberalibus ita scribit:

ταθτά τε πάυτα τελείν ίερη σκευή πυκάσαντα σώμα θεού, μίμημα περικλυτού 'Ηελίοιο· πρώτα μέν οδυ φλογέαις εναλίγκιου Δκτίνεσσε πέπλου φοινίκεου πυρί εξκελου Δμφιβαλέσθαι κτέ.

At the Andania Mysteries however white seems to have been the only wear: πορφύρα is mentioned only to be expressly forbidden in the case of the cushions on the seats of the iepal. (Michel, Recovil of Inser, 694, IL 15 ff.)

These passages I leave to consideration, remarking just two points:

(1) Müller assumes that a πορφορίς is identical with a φοινικίς: and the other critics who have touched the subject do not seem ever to have suggested that there is any distinction to be drawn between them. They may be right: but it appears to me a little hazardous to assume that the colours were entirely interchangeable for religious purposes: I should be inclined to regard φοινικοῦν as the angrier colour of the two, and more appropriate therefore to Infernal Deities; its use in lustral and magic ceremonies is well known.

(2) A πορφορίς certainly must not be regarded as peculiar to Chihonic powers: for example Strabo 648 tell us that the Magnesian city honoured Anaxenor the κιθαρφόδον, πορφύραν ἐνδύσασα ἰερωμένον τοῦ Σωσιπόλιδος Διός.

Diels, Sibylitaische Blätter (1890) p. 70, holds that the original reason for the use of red dye in Instral coremonies was that it was blood-colour, and served as a substitute for blood: Die Farbe des Blates erklärt die Instrale Verwendung der roten oder purpurnen Farbe (фолго́х, фойгіξ vgl. фо́го́х). Daher das flammenn der nupta (Schol, Iuvenal, VI 225 est eum sanguineum) und der Flaminica Dialis (die auch ein purpurnes Kleid trug), sowie überhaupt der purpurens amietus beim romischen Opfer, wodurch die zu Entsühnenden als Substitute des blutigen Opfers bezeichnet werden, Vgl. Verg. Aen. III 405 u. A. Plin. Nat. b. IX 127 (purpura) dis advecenter placendis. Für

See e.g. K. F. Harmann Alberthauer (1858) ii. pp. 139, 219; Lobeck Aglasphanuar p. 792.

griechischen Branch vgl Aesch, Eum. 1020; [Lys.] 6, 51; Plut, Arist. 21. Endlich geht aus der lustrale Bedeutung der purpurnen Welle und Wellfäden die apotropäische Verwendung hervor. . . And on p. 72 fin, he quotes Varro's view as given by Servius III 67 . . . . quonium sumptuosum erat et crutele victimas vei homines interficere, sanguines coloris corpta est vestis mortuis inici.

In the J.H.S. 1898 p. xliv, suggesting the same origin of the colour's use, Mr. A. B. Cook ventures upon a narrower generalisation: "The cloaks of crimson dye" worn during the solemn procession which is to escort the Furies, are to be explained by the prophylactic significance of the colour red. Red or purple is in every case a prophylactic colour. I should hesitate myself to say that πορφυρά were never given to the Upper Gods as being royal colour: and in the case of our φοινικόβαπτα here I think we need not look for any secondary prophylactic reason. Blood-red alone would be enough to make the colour suitable to angry Powers. It is as a garment dyed in blood that it is worn by δλοή Κήρ, the Spirit of Destruction, in the midst of battle. Hom. Σ 538: εἶμα δ' ξχ' ἀμφ' ὁμοισι δαφοινεὸν αἴματι φωτῶν. The Erinyes are Κήρες 'Harms' (Aesch. Theb. 1055). It is worn by Tisiphone, the Blood-avenger, in Verg. A. vi. 555 Tisiphone palla succineta cruenta, and in Ov. Met. iv. 481 Tisiphone madefactam sanguine sumit importuna facem fluidogus cruore rubentem industur pallam.

And what is this but willitary red !—a use which tradition has continued. together with drums and trumpets, to the present day; partly no doubt. by reason of the splendour of it, but originally worn, one may suppose, not as a prophylactic, but as threatening revenge and blood to others. In Homer K 133 Nestor, arming for battle, dons a xhairar correccercar. It was the regular uniform of the Laconian soldiers. Being a χλαμός πολεμική (Schol. Ar Par 303), it was worn by the young Knights, έφηβοι ίππείς, as at the Thessalian festival described by Heliodorus iii. 3, in which at the same time The Salii performed their war-lance courseous the girls κανηφορούσιν. ἐνδεδυμένοι χιτωνίσκους (Plut. Num. 13). Thus there is no apparent reason to suppose a prophylactic use in the Plataean ceremony described by Pint Aristid, 21, when the Archon puts on a crimson garment to sacrifice to Zeus and Equis xbonos and the fallen warriors, though never else does he wear anything but white it might be no more than symbolical of war and bloodshed. 'The red habit, says Burton on the 1001 Nights vol. v. p. 156 ed. 1894, is a sign of wrath and vengeance, and the Persian Kings, like Fath Ali Shah, used to wear it when about to order some horrid punishment. White robes denoted peace and mercy as well as joy.' That surely was the meaning of the red flag which was waved by the priests and priestesses at Athens when pronouncing a solemn execration; Lysias contra Andor, p. 107, 52; 4ml τούτοις έξρειαι καλ έξρεις" στάντες κατηρώσαντο πρός έσπέραν, και φοινικίδας

K. F. Herman Alterthaune (1858) ii, p. 219 § 55 note 16 associates this as authoria ritual with our passage.

<sup>\*</sup> Pint. Aloib. 22 carapaordas spacespapiousro salvas iepsis eal lepsias, Max. Tyr. xii. 6 érapacarro airo: Khennes val Ebrolitikas.

άνέσεισαν κατά το νόμιμον το παλαιόν και άρχαϊον. It was like the black cap which our judges still put on before pronouncing sentence of death.

The garb of the Erinyes was certainly not at all times μέλαν or φαιών unrelieved: in Lucan vi. 654, when Erichtho is preparing for the exercise of her Black Art, discolor et vario farialis cultus amictus induitor. We are told by Diog. Laert vi. 102 that Menedemus the Cynic assumed the guise of an Erinys: Έριννος ἀναλαβών σχήμα περιψεύ ήν δε αὐτῷ ἡ ἐσθής αὐτη χετών φαιὸς ποδήρης, περὶ αὐτῷ ζώνη φοινική κτέ. This seems to imply that the

crimson girdle, like the sud-coloured robe, belonged to an Erinys.

The costume of one upon a vase figured by Millin Peintures II 68 is thus described by Boettiger Die Furiannests (of which I possess only the French translation): 'L'habit retroussé ne descend que jusqu'aux genoux ; elle est chaussée de cothurnes. Elle est nidée, et ses ailes sont attachées aux épaules avec un ruban de pourpre. . . . Tout son vêtement . . . . . est garni de belles broderies en forme de méandres, et orné de bandes de pourpre, et de paillettes d'or en forme de cercle.' Boettiger gives reason to suppose that this costume, with the cothurus and purple ribbands, was designed to represent the Erinyes as huntresses; it is just the costume that Artemis or Diana, as the Huntress, is arrayed in (cf. Xenophon Ephes i. 2):—though, as I learn from Mr. G. F. Hill, it is impossible to argue much from the colour of the ribbands here, because on vases of this kind the only colours used are black, white, purple, and the natural colour of the ware.'

Apart from this, however, the other evidence gives us, I think, sufficient reason to conclude that the Eumenides might wear this colour without ritual offence. And on this occasion, which is not, as usual, δύσφημον, but εὐφημον—white surplices indeed they cannot wear, but φοινικά, which in some degree at least are proper to them, may be used to robe them in for special honour, just as ἀλουργή πορφυρά were used on festal days to robe the statues of the Gods above.

But to the Athenian spectators of the play I think that this investiture would have conveyed another and more definite significance. All the latter part of the play is devoted to two inter-woven subjects—to the glory of Athena, who is shown abolishing the ancient Ordeal by Oath and instituting civilised Justice and Trial by Jury on the Arcopagus; and to the establishment of the Eumenides in their abode at Athens, where instead of being regarded with disgust and hatred, they are henceforth to be looked on as beneficent and salutary. The last quarter of the play is occupied with this arrangement. At v. 807 Athena offers them a habitation in the righteous land; at last prevails upon them to accept it; and the acceptance is celebrated with songs of mutual congratulation. They are now to be Ευνοικήτορεs (837) among her citizens, χώρας μετασχείν τήσδε (871), τήσδε γαμόραι χθονός (891): they become μέτοικοι (1012), accepting their Ευνοικίαν (917), μεταικίαν (1019). It would be strange, under all the reiteration of the

This is the significance of re. 432-435.

words μέτοικοι, ἀστοί, and πολίται, if the thoughts of the Athenian hearers had not turned to the relations between Burgesses and human Denizens.

The greatest festival in the Athenian year, the National Feast, was the Haraθήναια, to the glory of Athena. And a most notable feature of that great occasion was that the μέτοικοι took part in the procession. To the mind of Aeschylus the likeness of the situation could not belp occurring; and it would be like his way to use the parallel and keep suggesting it by elaborate allusion. Thus, as I have pointed out elsewhere, in the Chosphores one of the main ideas is the change from Darkness into Light; and again the usurpers in the palace are conceived as a pollution or disease to be expelled by purges: with those two conceptions, Aeschylus could not but have present to him the analogy of the Great Mysteries, in which those initiated and made perfect after purifying ceremonies passed from profound darkness suddenly into a great light; and I think that in the language of the last chorus at any rate there are unmistakeable allusions to them.

If then, we could only find that at the Panathennea the μέτοικοι were endued with any corresponding honour, we might fairly think that Aeschylus intended to suggest it. Crimson cloaks indeed we could hardly expect that resident aliens should be allowed to wear; but we might be content with something short of that. Yet crimson cloaks and nothing less, were actually worn by the resident aliens in that procession: Photins Σκάφας: ἔφερον οἱ μέτοικοι ἐν τῷ πομπῷ τῶν Παναθηναίων οἱ μὲν χαλκᾶς οἱ δε ἀργυρᾶς, κηρίων καὶ ποπίνων πλήρεις, ἐνδεδυκότες φοινικίωνς χιτῶνας οὖτως Μένανδρος. Βεἰκετ Αποκί. 214. 3 (Suid. Ετ. Μας.) ἀσκοφορεῖν: τὸ ἐν ταῖς Διονυσιακαῖς πομπαῖς τοὺς ἀστούς, ἐσθῆτα ἔχοντας ἡν βούλονται, ἀσκους κατὰ τῶν ὅμων φέρειν. και οἱ τοῦτο ποιοῦντες ἀσκοφόροι καλοῦνται. ὥσπερ νομος τοὺς μετοίκους χιτῶνας ἐνδεδύσθαι χρῶμα ἔχοντας φοινικοῦν καὶ τὰς σκάφας φέρειν. ὅθεν και σκαφηφόροι καλοῦνται.

And we have a valumble record of the spirit in which this was done: Hesychius Σκαφηφόρου: οἱ μέτοικοι οὕτως ἐκαλοῦντο σκάψας γὰρ ἔφεροι ἐν τοῖς Παναθηναίοις, ἔν α ὡς εὖνοι ἀριθμώνται, μετέχοντες τῶν θυσιῶν: 'in order that, partaking in the sacrifices, they may be included as being of good will.' Now let us recall the phrases used by Aeschylus:

> φοινικοβάπτοις ἐνδυτοίς ἐσθήμασι τιμάτε, και το φέγγος ὁρμάσθω πάρος, ὁ πως ἄν εὐφρων ἥδ' ὁμιλία χθονὸς το λοιπὸν εὐανδροισι συμφοραίς πρέπη. Deck them with robes of honour crimson-dyed, And let the torch-light move, that so the land May find this company's good will henceforth Marked in his manhood's excellence and worth,

Good will is the relation, friendliness and sympathy—not love, across usually were regarded with disfavour, at the most with tolerance. But on

<sup>\*</sup> This probably raters to the proverle ourregareous suions, Monand. Elevitus.

this occasion all the inhabitants of Athens were united in a common sentiment—peace and good will to all men that abode beneath the shadow of Athena's wings. Not φίλος, therefore, is the adjective, but εύφρων: ε. 993 τάσδε γάρ εύφρονας εύφρονας αιεί μέγα τιμώντες, 1035 ύπ' εύφρονα πομπά.

1013 είη δ' ἀγαθών ἀγαθή διάνοια πολίταις-mutual goodwill.

The phrase evaropolar συμφοραίς has caused some stumbling: Paley renders it 'may henceforth be noted for (causing) circumstances tayourable to the life of men, and Liddell and Scott in the same way, "prosperous to men"; Mr. Sidgwick, "" may shine forth with prosperous blessings," rather emphatic and unusual phraseology.' Weeklein understands it better, 'durch das Glück, dass das Land wackere Manner besitzt, comparing καλλίπαις πότμος in Agam 759. It means strictly by results consisting in evavôpia or evavopia; by someoplais resulting or befalling, exhibitions of fine manhood: Pindar Pyth. i. 40 έθελήσαις τιθέμεν εθανδρου χώραν, Ολ. v. 20 αιτήσων πόλιν εὐανορίαισε τάνδε κλυταίς δαιδάλλειν. It was the pride of Athens: in Xen. Mem iii, 3, 12 Socrates says οὐο εὐανδρία ἐν άλλη πόλει δμοία τη ἐνθάδε συνάγεται. The phrase, therefore, is apt and intelligible enough without any further allusion. But with the Panathenaea once suggested to him, what Athenian citizen could have failed to think of one ! Among the special ceremonies belonging to that feast, none was more familiar than the εὐανδρία, which I may describe in Mr. Purser's words (Smith Diet. Aut. Art. Panathenaca):

'The smaller Contests.—(a) That called Enaudria (εὐανδρία) was a means by which the leaders of the procession were chosen. It was a λειτουργία, [Andoc.] in Alcib. § 42, and he who performed it chose out of his tribe a certain number—perhaps about twenty-four, the number of a chorus—of the tallest and best-looking members, and arrayed these with proper festal garments.

Then follows the procession with its flaming torches and its paean in dactylic metre and its ὁλολύγματα, reminding us of the Panathenaic παυυχίς with its torch-race, and its paeaus (Heliodor, i. 10), and its ὁλολύγματα of women (Heraclid, 777):

βάθ' όδου, & μεγάλαι φιλότιμοι <sup>10</sup> Νυκτός παίδες, ὑπ' εὐφρονι πομπᾶ εὐφαμεῖτε δέ, χωρίται: 1033

March onward and come where good will shall estate you, Dread Children of Night, in the pride of your dower— Let all the people refrain their voice!

Michaelis Perikenen p. 326 (where the loci for the Panathensea are quoted in full), Hermann Allerthuner (1858) II. p. 358-67, August Mommsen Fode der Stadt Athen pp. 66, 101-4.

BATENΔΟΜω was a mistake for BA-TEOΔΟΝω and that Asschylus is using the same formula that Sophoeles uses in setting forward a procession to Athena Egyden (at the Xaxera, also called 'Αθήναια, Monument Feeto p. 343) free, 760 r Bar' sir δάδο δη πῶν δ χειρώνες Λεών.

III Bur's reading, generally adopted, Bure to each in not Greek. Arschylne if he had tolerated such an ugly jumping rhythm—would have add Bure tolerated with an ugly jumping rhythm—would have add Bure tolerated and some tolerated such as the such that th

Where in Earth's immemorial dark caverns await you Drink-offerings and burnt, adoration and power. Let all the people refrain their voice!

Now in his Heartologis (1864) p. 171 August Mommsen had already seen reason to infer that these concluding ceremonies were designed with reference to the Panathenaic παιαννχίς. He says on p. 171; Wie dem Tags auf der Burg zu bringenden Opfer und dem Festzuge nachtliche Religiousgebrauche vorangingen, so durften auch dergleichen auf dem Areopag stattgefunden haben; denn auch hier fand ein Opfer (Rangabé 814) am Lichttage der Panathenäen engsten Sinnes statt, wie denn von einem Festzuge für die Semnen die Rede ist, an dem kein Sclave theilnimmt; Philo de praest, libert, p. 886 B; G. A. 62, 37.

With this note:

Vielleicht bezieht sich der Schluss von Aeschylus Eumeniden zum Theil auf Cultushandlungen der panathenaischen Pannychis. Die racherischen Gottheiten ergreifen Besitz von den Tiefen der attischen Erde unter dem Clanze von Fackeln, geleitet von dem euklens logos mailow, yvvaisow sal στόλος πρεσθυτίδων. Der wiederholte Ruf des Eumeniden-Geleits ολολύξατε που έπι μολπαίς erinnert an die (panathennischen) όλολόγματα und μολπαί aus Euripides. Orestes der Muttermörder muss an einer φθινάς άμέρα, vielleicht gerade an der τρίτη φθίνοντος, vor den Schranken gestanden haben. —Das eigentlich religiöse Hochfest der Panathenaen wird von der Hieropoen verwaltet; unter Hieropeen giebt es auch für die Semnen; in Demosthenes Zeit freilich drei besondere für die Semnen (21, 115), während man erwarten möchte, dass die Hieropoen, welche eine zahlreiche Behörde waren, den Dienst der Athena und der Eumeniden zugleich besorgten. Im Festjahr der Athener ist nicht leicht eine passendere Stelle zu finden als die Panathenaen. um den Semnen-Cultus einzuweisen.-Derselbe wird damit nicht mit der Athena-Religion in dem Maasse vereinerleit, dass er nicht un ein besonderes Geschlecht geknitzft bliebe, welches mit der Religion der Athena nichts gemeinhatte. Dies besondere Geschlecht war das der Hesychiden, Polemon fragm. ed. Preller p. 91.

In the later work, the Feste of 1898, this note is not repeated; after saying on p. 106: 'Die Juchzer der Madchen—δλολύγματα bei Euripides [Heruel, 777]—beruhten wohl auf sehr alter Sitte. Es mügen Worte des Herbeirufs oder des Willkommens gewesen sein, kurze Litaneien, die von der Priesterin vorgesprochen wurden, dass die Madchen sie nachkreischten,' he adds in the note merely: 'Wohl unter Instrumentalbegleitung; Aeschyl. Eumenid a. E. δλολύξατε εὐν ἐπὶ μολπαῖς.'

I was not aware of Mommsen's view when Photius' remark about the crimson cloaks of the *µėroixei* set me on the track of the Panathenaea, and I was made acquainted with it by a mention in Mr. Purser's article. Here then are two opinions, starting from quite different points, and converging independently towards the same conclusion. What I think is that the whole of this procession was designed by Aeschylus as a reflection of the great

Panathenaic, which was held in honour of Athena, and in which both burgesses and denizens took part in amity; and that the treatment of the Eumenides is borrowed from the symbolic treatment of the µέτοικοι at that feast. It was his way, when he had conceived a parallel, to work it out elaborately; and with this clue to start from there are other points where we may find a purposed correspondence. Thus it is possible to see a double application in v. 991;

ἐκ τῶν φοβερῶν τῶνδε προσέρπον !!
μέγα κέρδος δρῶ τοῖσδε παλίταις:
τάσδε γὰρ εὕφρονας εὕφρονές αἰεἰ
μέγα τιμῶντες καὶ γῆν καὶ πάλιν
δρθοδίκαιον
πρέψετε πάιτως διάγοντες.

How apt their wisdom is to learn
Good language! In these Shapes of fear
Much gain and vantage I discern
In store for all my Burghers here:—
Yield them great honour, keep good will
Between you, and your land shall be
A star among the nations still
For just and righteous polity.

Athens, from the time of Solon, cultivated and encouraged the μετοίκους, a policy, as Grote shows (History of Greece, Part II c. xi), of capital advantage to her, 'since it determined not merely the extension of her trade, but also the pre-eminence of her naval force.' Later Greek writers plainly recognise the value of them as a source of wealth: Xen, do cect. 4, 40 δσα δ' ἀν ἐφευρίσκη (ή πόλις) διὰ τὸ εἰρήνην είναι καὶ διὰ τὸ θεραπεύεσθαι μετοίκους καὶ ἐμπόρους... 'Ι΄ νοι παὶς ρεακό, 'says Isocrat. do ρακε p. 163 c ὀψόμεθα τὴν πόλιν δυπλασίας μεν ἡ νῦν τὰς προσόδους λαμβάνουσαν, μεστήν δὲ γιγνομένην ἐμπόρων καὶ ξένων καὶ μετοίκων. Lysias in Andor, p. 107, 31 μέτοικοι μέν καὶ ξένοι ἔνεκα τῆς μετοίκως ὑφέλουν τὴν πόλιν εἰσάγοντες. It was a wise imperial statesmanship that Lysistrata, the Pence-maker, displayed in Ar. Lys. 579: ἐχρῆν ... ξαίνειν ἐς καλαθίσκον κοινήν ε ῦνοιαν, ἄπαντας καταμιγρύντας τούς το μετοίκονς κεῖ τις ξένος ἡ φίλος ὑμῖν ... και νἡ Δία τας γε πόλεις, ὁπόσαι τῆς γῆς τῆσδ' εἰσὶν ἄποικοι.

these desadful eventures (possessi sõpas tiev are called in forph. h. 68), varõe menning the Erinyes themselves, as in 993, 973, 933, 936. If that is so, vpocéprar is energly the word wanted, like and sol spocéprar raid opa in dj. 1255; form spocéprar, épépra were used especially of time coming an, or what these bastu store. A participle is not indeed accessive with sépões ôpā, but Heyne had already de siderated one, augusting that after ôpā ne should read spocaras rêjoor.

My suspicion of the MS specimes comes short of being certainty, but I am sure that my specifyres deserves more consideration than it has received. Latin, I know, often speaks of the Furnarism ora, but Greek hers I feel should say, not from these decoulful stages, but from these decoulful stages, but from these decoulful stages to an optimit of theirs in Orph. Agree, 69, Sentites O.C. 84, the alumentum self-business and Spacostádes nópas Eur. Or. 256, is the only of their in Orph.

'ay, and all the colonies as well, draw all these scattered strands together into

one great ball, and so τω δήμω χλαϊναν υφήναι." 12

Applied to the human μετοίκους, then, Athem's words would mean, If you encourage μετοίκους, and finter relations of mutual good will, you will not only find in them a source of material profit, but they will make your name renowned throughout the world for justice and protection of the foreigner—that δίκα ξεναρκής for which Pindar so often praises Aegina, and which Aeschylus had lauded in the Supplices (709). χαίρετε χαίρετ ἐν αἰσιμίαισι πλούτου is the reply of the Eumenides, Be ye glad in rightcassness of wealth, not gotten by oppression and extortion; those are terms in which the μέτοικοι, recognising their just treatment, might well have returned thanks. Athem then repents her counsel:

το μέν άτηρον χωρίς κατέχειν, το δε κερδαλέον πέμπειν πόλεως έπι νίκη. ὑμεῖς δ' ἡγεῖσθε, πολισσούχου παίδες Κραναού, ταῖσδε μετοίκοις εἰη δ' ἀγαθών ἀγαθή δεάνοια πολίταις.

Keep all harm in durance penned,
And all gainful blessing send,
To give her victory.
Come then, Cranaus' ancient seed,
My Citizens, my Burghers, lead
And bring these Dwellers on their way,
Still keeping in your hearts, I pray,
Good will and charity!

There is so much insistence on the word runas, the rights and honours to be granted them in Athens (827, 858, 870, 885, 895, 1033), that if this double application was intended, it would seem that the nérossos at this time in Athens were a class enjoying civil rights,—not those, of course, belonging to full citizens, but more than those of wholly-unenfranchised \(\xi\)eisos.

Our interest in the Panathenaea hitherto has been owing mainly to another work of art, the sculptures of Pheidias on the Parthenon. Henceforward, when we read this last scene of the Eumenides, we may find, I think, a new occasion to recall that splendid pageant.

WALTER HEADLAM.

All these references I owe to Mr. A. H. Cooke's article Mesoci in Smith's Dier. Ant.

#### A NEW REPLICA OF THE CHOISEUL-GOUFFIER TYPE.

The central photograph shown on p. 279 is of a fragment now in the courtyard of the Terme Museum in Rome, but unpublished as yet in the catalogue.
The material is a white coarse-grained marble probably of Greek origin, and
the fragment represents the right leg (Standbein) of a standing male figure,
and the trunk of a tree which supports it. Against the trunk, and at the side
of the leg, is a quiver with conical lid, slung by a strap over a projecting branch.
The foot is missing from the centre of the ankle-bone, and the upper line of
breakage runs from the hip-bone inwards and downwards to the junction of
the legs. From this point to the ankle the fragment measures 67½ centimetres, so that it is approximately life-size. There is a puntello in the middle
of the thigh on the outside.

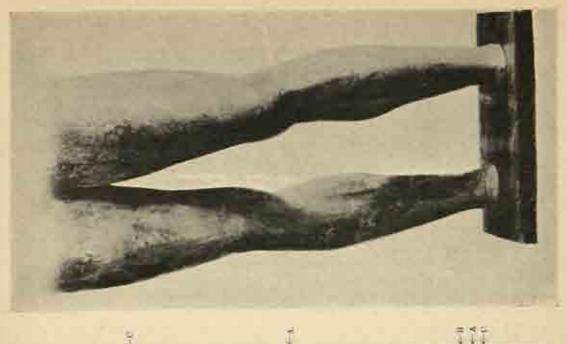
The workmanship is excellent, and belongs in style unmistakeably to the middle 5th century. Fortunately we have no difficulty in restoring the whole statue, as the comparison with the legs of the Choiseul-Gouffier Apollo and the "Apollo on the Omphalos," which are here shewn side by side with the Terms leg, leaves no reasonable doubt that our fragment belongs to another, and a very fine, replica of that well-known type. Compare the prominent muscular swelling just above the knee-cap and the course of the same muscle along the inner line of the thigh, the hard sinewy treatment of the leg and the stiff rounded thigh, the profile of the knee and the broad groove which separates calf and shin bone, and the identity of original becomes evident at once.

I give here the measurements at the points indicated beside the photograph of the Terme fragment, and at the corresponding points in the two other statues.

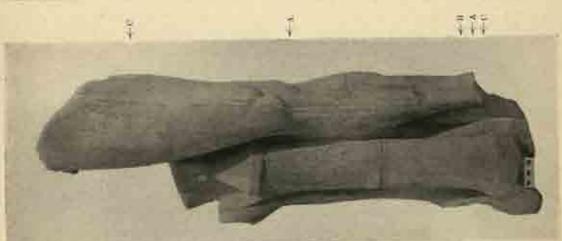
| Law in Terms Moserret<br>on Ross. | Apolio in Bertish Musica: | LEG OF TAPOLLO ON THE<br>OMPHALOS "IN CENTRAL<br>MUSEUM, ATHENS. |
|-----------------------------------|---------------------------|--|
| A d :165 m.                       | 48# m.                    | 36 m.  |
| B 25 m.                           | -25 m.                    | 24 nt,   |
| C-C 875 m                         | -665 m.                   | 97 m.  |

A head of the same type is also in the Terme Museum, but the material is a finer closer-grained marble, and therefore it has probably no connexion with the leg.

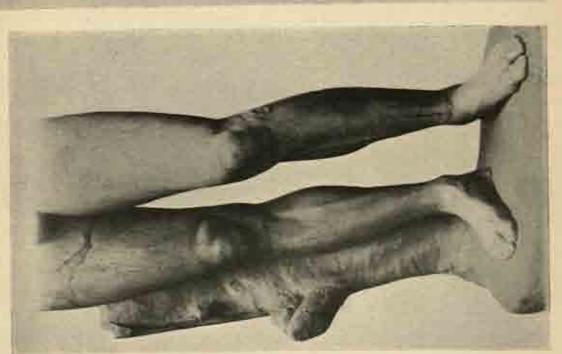
Martiani and Vaglieri, Guide 5, p. 37, No. 408. The load was removed from the Magnines of Sta Francesco Romans.



MINIMA. LINE OF APOLIO OF THE OSPIRADA.



LOS ON THEMSE MUNICIPAL



LEGS OF CHOISTUL-GOUPTER APPLED

This fragment is important for two reasons. With the possible exception of the Athenian replica it is by far the finest in workmanship of the many examples of this type-the delicacy of the surface and the smooth modulation of the muscles is apparent even in the photograph-and, what is of especial interest, it gives us an attribute; in the quiver, which provides valuable evidence for the meaning of the statue, a point on which controversy still exists? In other replicas we have either the tree-trunk (Choiseul-Gouffier) or the quiver (Torlonia); here we find the two conjoined, and thus the view that the quiver was a merely fortuitous and unmeaning support is disposed of. In a position where it is not needed for support it can only have a significant meaning. It is hard to see that this meaning can have been other than to show that Apollo was here to be recognized. There are now therefore four replicas of the type with Apolline attributes, for, in addition to the quivers of the Terms fragment and the Torlonia statue, the Ventuor head in the British Museum possesses the long locks of the deity, and the Cyrene head, also in the London collection, was found in a temple of Apollo,

As regards the connexion of a quiver attribute with Apollo it is necessary to remember that the support of the Delian Diadomonos in the Central Museum at Athens has also a small quiver slung over a branch. Miss McDowall in the J.H.S. for 1904, p. 204, argued that this proved that there was no necessary connexion between a quiver support and Apollo. Hauser on the other hand in the Jahreshefte for 1905 (vol. viii. p. 42) maintained that it proved that the statue of the Diadhmenos represented an Apollo. Lowy in the following number of the same journal (vol. viii. p. 269) denied the necessity of this connexion, but explained the presence of the quiver as a natural object for representation in a Delian workshop. It is also of course possible to contend that the use of a quiver in this statue implies an adaptation of the athletic portrait to a divine type. Until the subject of copies and their attributes is more fully treated we cannot hope to have full light on such questions, but where we have no proof to the contrary, it will be very hazardous to reject the evidence of the quiver in this Terme fragment and its replicas as a deliberate device of the convist for recognition of the deity.

In conclusion I wish to thank Mr. Wace of the British School at Rome, who was kind enough to take the photograph of the leg here published and Dr. Rizzo, director of the Terme Museum, without whose ready co-operation the photograph could not have been taken at all.

GHY DICKINS.

Dr. Waldstein's view that the statue is un athletic portruit (J.H.S. vol. i. p. 168) has been approved by Furtaingles (Roscher's Lexicos, i. p. 155). A. H. Smith B.H. Col. of

Scalphore, vol. 1, q. 35, No. 200). Salmather (4th, Witte, ix. p. 248), and others, who maintain that it is a statue of Apollo.

### TWO BRONZE PORTRAITS FROM EGYPT.

## [PLATE XVIII.]

The bronze statuettes which are reproduced on PLXVIII, form part of the small collection of Greek and Roman antiquities in the Egyptian department of the British Museum. They are practically entire, though the surface of the bronze has suffered considerably from oxydization. I am much indebted to the authorities of the Museum for allowing me to publish two such interesting pieces.

The provenance of the two bronzes is indicated by their place in the Museum: they come from Egypt. It is evident too that they have been made as a pair. At first sight they might be taken for Olympian deities, but looking more closely one sees that the heads are intended for portraits. They must therefore represent a deified king and queen, and there can be little doubt as to what royal couple they do represent. The male figure is Ptolemy Philadelphus and the lady is his elder sister and second wife, Arsince II.

The king stands in an easy attitude, his right hand resting on a long sceptre or spear. In his left arm he holds the club of Herakles. He wears cothurns, and his head is covered by a cap consisting of the skin of an elephant's head. The features, the short whiskers and the hair round the torehead are exactly the same as on the coins (cf. especially B.M. Cat., Pl. VII., No. 5). The elephant-cap is a significant attribute. It is the characteristic headdress of Alexander the Great on the early coins of the Ptolemaic series, and in later times it became the distinctive mark of the city-goddess of Alexandria. For the ruler of the new state of which Alexander was the founder it was therefore an appropriate symbol. And if the elephant-cap means that Ptolemy claims to be the rightful successor of Alexander, the club which he carries in his left arm reminds us that he counted descent from Herakles. In the eulogy of Theorritus, xvii, 13-33, it is with the same pair of heroes, Alexander and Herakles, that his father Soter is

<sup>\*</sup> Nos. 38442, 38443. Mr. H. R. Hall kindly supplies the following details; Height of Ptolony 1 ft. 3½ in.; of Arsinov 1 ft. 2 in. They are apparently hollow cast, but it is not possible to say whether each figure was made in one

piece or several. The pupils of the eyes are increased. The object longing from Prolemy's arm night be either a lim's skin or a closek.

<sup>\*</sup> See the beginning of the Adule Inscription (e.g. Mahaffy, Hust. of Eg. p. 195).

associated. It is also possible that the cothurns are intended as a mark of affiliation to Dionysos, a very popular deity in Alexandria and one with

whom the Ptolemaic family claimed some relationship.

The face of the queen is too much damaged to be used for comparison with the coin-portraits. Her hair is arranged in the usual fashion (though this is not quite apparent in the photograph), and is surmounted by a low stephane. She wears shoes. The drapery, which consists of a sleeveless chiton and a rather tightly drawn mantle, showing the contours of the hody should be contrasted with that of the more matronly figure on the faience vases. The sceptre which she held in her right hand was in all probability not the papyrus-sceptre of Egyptian queens, but one of the same type as those which appear on Ptolemaic coins. There is indeed nothing Egyptian in either of the two statuettes. The double cornucopiae which rests in the queen's left arm is a well-known emblem on her coins (B.M. Cot. Pl. VIII.). Athenaeus tells us that it was first invented as an attribute of the statues of Arsinoe in allusion to her riches and generosity; her horn of blessings, as it were, held double. The flattery is in much the same spirit as a passage of Theocritus in the poem already referred to:—

άλλ ούτις τόσα φύει δσα χθαμαλά Δίγυπτος . . . ού μαν άχρεδός γε δόμω ένι πίονι χρυσός . . .

Portraits of the Ptolemies are by no means common, and any addition to the list is welcome. But it is as whole-figure portraits in the round that the two bronzes are chiefly interesting. Small as they are, they give us a good idea of the character of Greek statues of the \$\theta \circ i \text{ \$\delta \delta \delta

C. C. EDGAR.

Mousemak, July 20, 1998.

Eg. Wallin, Eg. Ceramie Art. p. 50, Fig. 103.

<sup>\*</sup> zi. 497. The context and the monuments combine to show that it is the Six-year and not the simple expar of which he is speaking. Some \$4 menorantipes for [or sxi] makes not blooding of making banking populary yearsharms Approxysteliour, of the country Xuli non-to- populary factor of balance things, impanding the Squangeyar the Squangeyar & Squangeyar Santar

και τοῦ τῆς 'Αμαλθείες ἐστὶς διβούτερου τὸ κέρας ταῦτα, μεγμανεύει αὐτοῦ Θεοκλῆς ἐν 'Ιθνφάλλοις εθτώς

έθδσαμεν γάρ σύμερον Σωτήμια πάντες εξ τεχνίται: μεθ' ὧν πών τὸ δίκτρας ὧν τὸυ φίλνατον Βατιλέα τάμεμι.

A list, which might be considerably enlarged, a given by Mr. Wass in J.H.S., 1905, p. 00.

## NOTE ON THE ATALANTA OF TEGEA.

WHEN writing about the Atalanta of Tegea in the earlier part of this volume (pp. 169 spg.). I stated my impression that I was not the first to have made the observations which I there recorded; but I overlooked the fact that Prof. Furtwangler's opiniou, which in essential matters accords with mine. had already been published in a footnote to an article by Dr. L. Curtius in the Jahrbuch des K. Deutsch, Inst. xix. p. 79.1 There is, however, the less to regret since my article has given occasion to some further notes on the subject by Prof. Furtwangler, which he has published in the Sitzungsberichte of the K. Bayer, Akademie, 1896, pp. 383 og. I have to thank him for a copy of these notes, which give a fuller account than before of his observations and the inferences to be drawn from them. His visit to Tegea, at which his notes were made, was in March 1904; mine was in April of the same year; and so his observations have the priority, though I had, of course, no knowledge of them either when I examined the sculptures at Tegea, or when I wrote down my results for publication; it is a matter for great satisfaction to find them confirmed by so eminent an authority. As the Bavarian Sitzungsberichte may not be accessible to all readers of the Hellevic Journal, it may interest them to hear that Prof. Furtwangler thinks the probability of the head belonging to the torse depends not only on the similarity of marble, of weathering, and of general appearance, but also on the extremely beautiful effect of their combination. He would, however, explain the difference of material from the heads already known, not as I have done, but by supposing that all the figures of the eastern pediment, except the boar, were of large-crystalled (Parian) marble, and that all the heads and other fragments in the inferior local (Doliana) marble come from the western pediment. It is impossible to decide this and other questions without a more systematic study and publication of all the extant remains of the sculpture. Such a publication by the French excavators will be awaited with eagerness, in view of the extraordinary interest of these sculptures for the history of art. It is to be hoped that they will include a photograph of the head and the torso of Atalanta combined, if only as an experiment: the combination from the published photographs which I have given in the Journal is of course only to be taken as a provisional and in some ways unsatisfactory expedient.

E. A. GARDNER.

article with some more Blustrations by M. Arvanitopoullos has appeared in the Eo. Asx. 1900, pp. 37 asy.

The head is also referred to by Dr. Amolung in the lext to Brunn-Bruckmann's Deakontler, Nos 583-584, p. 7, n. 16. More recently as

### A STATUETTE FROM NORWAY.

THE British Museum has recently acquired a small bronze statuette, which is of some interest, not for its artistic ment, but for the probable place of its discovery. The statuette, 21 inches high, represents a woman, who is dressed in a long chiton, which folds over so as to form a sort of cape and has short sleeves, leaving the arms bare from above the elbows. She is standing with her feet close together and holds her skirt with her left hand







in the familiar Spes' attitude. Part of the left foot and the right arm from the elbow are broken away. Her hair falls in long tresses over her neck and shoulders, and is indicated by incised lines. Another incised line seems to represent a neckluce.

The style of the figure is very rule, and it has been much injured, but it seems to show considerable likeness to the art of Ionia, and may perhaps be the work of an Italian craftsman, working under Ionian influence. It can scarcely be later than the last quarter of the sixth century 5.0.

The statuette was found in the shop of Mr. Hammer, a dealer in old silver, at Bergen in Norway. It lay neglected in a drawer among smiff-boxes and other objects of recent date, but with it were three fibulae of the leech-type, ornamented with incised chevrons and concentric circles and corresponding to Montelins, Halie Primitive, Pi. VIII. No. 87. Fibulae of this type might safely be assigned to about the same date as that given above to the statuette. Mr. Hammer believed, though he was unfortunately not quite certain on the point, that these four objects had been brought to him a few years ago, and that they had been then recently excavated in the neighbourhood of Bergen. Their provenance is not therefore proved, but the homogeneity of the assumed find makes it at least not impossible.

If it be assumed that statuette and fibulae were found in Norway, some interesting questions are suggested. Imports from Italy are fairly well known in Western Europe, and a considerable list can be compiled of Italian fibulae, which have been found in England. But in the North such finds are rare, and even products of the Bronze Age of Central Europe do not commonly occur in Norway.

The only suggestion, which occurs to me, is that the four objects contained in the assumed find drifted up to the neighbourhood of Bergen as the result of the trade in amber. The trade with North Italy in amber began as early as the period of the Lake Dwellings, and it was flourishing between the eighth and the fifth century a.c. At that time the amber came from the coasts of Jutland and not, as at a later date, from Pomerania, which is now the centre of the traffic. From Jutland to the south of Norway is not an incredible voyage for a sailor of the sixth century, and that may have been the course followed by the statuette and the fibulas. The suggestion is a mere conjecture. The find is an isolated find, and it is not certainly attested, but it seemed possible that the discovery in Norway of a work, however humble, of archaic Greek Art might be of some interest to northern archaeologists.

A. H. S. YEAMES.

quartie.

See a paper on this subject by Prot. Ridgeway and Mr. Reginald Smith in the forthcoming part of the Proceedings of the Society of Anti-

See Sophus Meller, Nordinka Attertum-

### FRESH EVIDENCE FOR T.

Since the appearance of my article Tsade and Sampi in the preceding issue of this journal, a discovery highly important for the history of 'Tsade' has been made in the course of excavations at Ephesus by Mr. D. G. Hogarth, to whose kindness I owe the following information.

On a silver plate found in the primitive stratum of the Artemision, below the Croesus temple, there is an inscription in which T occurs thrice, in the words τέΤαρες and τε Ταρά Qοντα forming part of sentences in Ionic Greek.

The position of the objects found in relation to the Croesus temple makes 550 B.C., the beginning of the reign of Croesus, the absolute terminus of date on the lower side: there is, I understand, little doubt that the inscription belongs to the latter part of the 7th century B.C.

Apart from the great value of so old a document to epigraphy and archaeology in general, its importance for the history of T lies in the following facts:

- 1. It is the oldest occurrence of T as a sibiling
- It occurs in ordinary words of Ionic Greek (not in a place name, nor in a foreign word in Greek characters); and it is the only extant instance of independent authority.

(See my article p. 344 of sqq.)

- 3. It is a quite reliable reading, confirming other readings hitherto not quite sure (cp. ibid.), viz. those of the Halicarnassian inscription Brit. Mus. No. 886 (LG.A. 500), 'AλικαρναΤ[έω]ν, 'OaTāTιος, ΠαινάΤιος; and those of the Teos inscription LG.A. 497 B 22, 23, θαλάΤης—both inscriptions being of the fifth century B.C.
- 4. It agrees with these and the META coins, B.M.C. Mesambria, pp. 132, 133 (4th-2nd cent. n.c.), in making T = Ionic ΣΣ; and having a phonetic value which I take to be dental-sibilant, perhaps = modern ts or ch (Ger. z or tsch). I have explained (bid. pp. 346, 347) some reasons for supposing that there was a dental element as well as the sibilant in T; and the Ephesus plate gives a fresh suggestion in the peculiar doubling of Tau in each of its occurrences after κ or χ, even over the separation of two words, thus ΕΚΤΤΩΝ and ΕΚΤΤΟΔΟΡΑΤΟΣ. I

suspect a linguistic phenomenon resembling the Eurasian chi-chi.

5. It agrees with the evidence already cited (ibid, pp. 347, 348) to show that the area of provenance of the sibilant T is confined to two districts associated by intercourse and colonization, both using T=ΣΣ, viz the Ionian sea-board of Mysia and Lydia (in particular the towns Tees, Halicarnassus, Ephesus, Miletus) and the Pontic coast of Thrace (Musambria and probably Apollonia, Istrus, Odessus). It still leaves unanswered the important question whether this T was carried to Ionia from Thrace, or whether it was brought back from Thrace to Ionia.

As regards T the episemon, I am indebted to notes kindly sent me by M. Svoronos and Freiherr Hiller von Gaertringen for some additional references.

M. Svoronos points out that in addition to the list given in my article pp.  $342 \, sqq$ . Toccurs also on some bronze tesserae used as symbols of the theatre of Dionysos at Athens, and datable 343-338 n.c. See his Journ. Intern. d'Archéol. numismatique (Athens), vol. i. p. 46, no. 9  $\alpha$ -8 with plate  $\Gamma'$  no. 9; p. 46, no. 30 with pl.  $\Gamma'$  32; p. 52 no. 71 with pl.  $\Delta'$  32.

These are thus perhaps the oldest instances extant of the numeral T.

I do not readily agree with him in reading the E in pl.  $\Gamma'$  no. I also as a  $\Gamma$  placed on its side by error in arranging the plate for photography. Its shape is different, the inequality in the lengths of the three parallel bars which usually distinguishes  $\Gamma$  being absent from this E. Plates  $\Delta'$  4 and  $\Gamma'$  17 show a character  $\mathcal H$  which reminds one somewhat of the Rhodian character  $\Gamma$  (=900), to which Freiherr Hiller von Gaertringen calls my attention as noch junger als Kern Inschr. Magn. 100. This is of the first century B.C. See I.G. xii. 1, 913 (=I.G. Insul. i. 1, 913) and p. 207 addenda

M. Svoronos also gives an interesting reference to a note of his J. Intern. If Arch. num., p. 114, no. 1, which suggests that the true place of T in the numerical alphabet may have been between  $\Sigma$  and  $\tau$ , as agreeing with an exceptional value of the episemon which he has found. Perhaps 1 do not quite understand the application, but why  $\tau \delta \sigma \pi \dot{a} \nu i \delta \nu \kappa a i \pi \epsilon \rho i \epsilon \rho \gamma \delta \nu \sigma \tau o i \chi \epsilon i \delta \nu$ . I note with agreement that he thinks T, the sibilant, is equivalent either to double Sigma or to double Tau—a sidelight on the question of a dental phonetic value.

As regards the later Sampi, I find that Ulfilas in his adaptation of the Greek alphabet for the writing of the Gothic language in the fourth century A.D. took over  $\Upsilon = 900$  (in this form) along with the rest of the numeration alphabet.

## SODOMA'S COLLECTION OF ANTIQUES.

While the painter Sodoma was lying ill at Florence, in 1529, his papil, Girolamo Magagni, nefariously removed from his master's studio a number of objects, a list of which is set forth in a document formerly in the Archivio Notarile at Siena, but now lost. The document, which is an acknowledgment of the return of these objects, was printed by Milanesi, and is repeated by Mr. R. H. H. Cust in his exhaustive work on Sodoma. But as it is nevertheless likely to escape the notice of the classical archaeologist, it seems worth while to extract from the list the descriptions of those objects which were certainly, or may possibly have been antiques. It is perhaps incorrect to speak of the objects as a collection; they were rather a few odd pieces picked up as useful models by a painter who owed more of the qualities of his style than is generally recognized to his appreciation of antique sculpture.

Of the objects enumerated below some of course may have been merely contemporary reproductions of antiquities; others, like the woman's foot,

neither antique nor copy of antique.

Uno Appolline di bronzo di gitto . . .

Um tegola con impressioni di due animali senza gambe, di terra:

Uno più di femina intero, di marmo.

Un mezo piè di femina intero, dove sonno le dita.

Una testuccia di vechio senza naso, di marmo.

Um testa di lione ch' à manco una mascella.

Una testa col busto di donna sanza naso, di marmo

Uno corpo di marmo senza braccia et gambe . . .

Una testa di puttino di terra in profilo.

Uno piè di marmo rialto che si pasa con la puncta de le dita.

Un altro piè di marmo, qual posa tucto.

Due pezzi di vasi di tezra cotta uno, et uno di gesso formati a l'antiquo...

Uno ignudo di terra cotta senza testa antiquo con una coscia sola . . .

Una tegola di terra antiqua drentovi uno Mercole con uno toro et una donna con polli in uno bastone . . .

The Inventory of Goods left on Sodoma's decease (Cust, p. 337, No. 31) merely mentions 'Fiù teste et antichaglie' in his house and '30 pezi fra

<sup>&</sup>lt;sup>1</sup> Discoverati per la Staria dell' Art. Senses, <sup>2</sup> Giovanni Antonio Bami (London, 1996, pp. 304-396).

teste e piei ne lo studio, some of which may have been identical with the pieces above described. Of the former the most interesting is the last in the list. Its nature is not at first sight obvious, thanks to the naïveté of the description; but a reference to Campana, Ant. Opere in Plastica, Pl. LXI., shows that it is one of the well-known terracotta wall-plaques; that the 'woman with chickens on a stick' is really Winter carrying a pedum from which depend a hare and a couple of birds (in her right hand she carries a boar); and that 'Mercole con uno toro' is Hercules carrying a bull. The nature of the other objects it seems hopeless to attempt to ascertain, although the tile with impressions of two legless animals' may possibly have been a terracotta relief of the same class as that identified above. The nearest approximation to such a design is furnished by the reliefs with satyrs riding on panthers.' On these the panthers have, it is true, fore-legs, but their bodies terminate in conventional floral ornaments, and the absence of hind-legs would perhaps justify the description in the list.

G. E. HILL

Campuna, es. ett. Pl. XI.I.; Walters, B.M. Terrocottos, p. 392, Nos. D 561-568.

### NOTICES OF BOOKS.

The Hibeh Papyri. Part L. Edited, with Translations and Notes, by E. P. GRESFELL. and A. S. HUNE. Lombon: Egypt Exploration Fund, 1906. Pp. xiv + 410, 10 plates, 45s.

The new publication of the Grasco-Roman Branch of the Egypt Exploration Fund (a double volume, issued to subscribers for 1904-5 and 1905-6; contains a selection of the nexts recovered by Drs. Grenfell and Hunt from popyrus-cartonnages obtained by them in 1903 from Hibeh, a village on the east bank of the Nile, formerly in the conthern part of the Haracleopolite nome. A hundred and twenty-one texts are printed in full, of which twentysix are literary; and descriptions are given of fifty additional papyri, all documentary. All belong to the third cent, a.c., and most to the first half of it. As is natural, considering their origin, many of the pupyri are fragmentary, and this is especially the case with the literary texts, which are mostly small in extent. Of the eighteen hitherto unknown texts, the longest is two broad columns of a treatise on music, which Blass assigns conjecturally to Hippins of Elis. Among the others may be mentioned an introduction, in trochnic tetrameters, to a collection of yrous, which names Epicharums as its author; fragments of tragedies, conjectured by Blass to be the Tyro of Sophocles and the Ocean of Kuripides; and portions of the oration of Lysias against Theozotides. The fragments of extant classical authors include portions of four MSS, of the Hiad and one of the Odyssev, all containing additional verses to these of the vulgate. This phenomenon, which appears in all papyri of the third cont. B.c. hitherto discovered, is discussed at some length by the editors. The longest literary MS, contains portions of eighteen columns of the Rhetorics ad Alexandrum, and makes the fourth-century date of that treatise practically certain, thus supporting its attribution to Auskinenes. The non-literary texts include an astronomical calendar, compiled in the Suite nome, and a quantity of official and private documents, which contain a considerable amount of economical and administrative data. Three valuable appendices deal with (1) the Macedonian and Egyptian calendars, (2) the systems of dating by the years of the king, and (3) the eponymom priesthoods from 301 to 221 s.c. The indices are on the usual full scale; and the ten plates include representations of seventeen literary MSS, the astronomical calendar, and six dated documents, ranging from 301 to 202. n.c. The editors acknowledge considerable assistance from Prof. Blass in respect of the literary texts and Prof. Smyly in the non-literary texts and the appendices.

Essays on Four Plays of Euripides. By A. W. Verhand, Litt.D. Cambridge | University Press, 1905. Pp. xu+202. 74 6d. net.

The three-s maintained in this volume by Dr. Verrall are: (1) that the apparent inconsistencies and incoherences of the Automorche are due to the fact that it is a copied, and that the appenders knew that the action of Menelaus and Orestes was part of a programged plot to detach Hermione from Neoptolemus and force her into a marriage with Orestes; (2) that the Helm is a sort of mock trugedy, performed at a private theatre belonging to a wealthy widow on the island of Helenic, off Attica, and embodying at once a half-serious palinede addressed to the female sex, and a puredy of regular Attic tragedy.

(notably the Iphigenia in Taerical); (3) that in the Heraclis the hero is meant to be med from his first entrance, that his supernatural birth and advantures are defisions which he himself only believes when insene, and that the appearance of Iris and Madness is a dreun-vision which appears only to the alsoping leader of the Chorus; (3) that in the Orestes, Pylades is a wild fool, Orestes a maniar, and Electra a fletal, and that the play originally scaled in the conflagration of the palace and the death of all the principal characters, the final scene of the slow or machino being just tacked on superficially to satisfy the conventions of the Dionysiac drama. The Orestes and Medon, like the Helon, Dr. Verrall regards as having been originally written for private performance, without a charas. The volume concludes with a number of notes on single passages in the four plays.

Die griechische Literatur des Altertums. Von U. vox Wuldnowitz-Mondannonre. Berlin and Leipzig: Teubner, 1905. Pp. 236.

Prof. von Wilamowitz-Moellemborff's sketch of Greek Literature forms a section of the combined work entitled Die Kultur der Gegeneurt, and unfortunately cannot be obtained apart from the volume to which it belongs. Its most striking characteristic at first sight is the relatively large space devoted to the later literature. It is divided into five periods, thus apportioned in time and space: (1) Hellenic Period, n.c. 700-480 (pp. 4-35); (2) Attis Period, n.c. 480-320 (pp. 35-81); (3) Hellenistic Period, n.c. 320-30 (pp. 4-35); (4) Roman Period, n.c. 30-3.0 (pp. 144-197); (5) East-Roman Period, n.c. 300-529, the date of the closing of the Platonic Academy (pp. 198-229). In the last two period-Christian as well as pagen literature is included. The history (which would well repay translation for the benefit of English students) is written from the independent standpoint characteristic of the mithor, and abounds in suggestive and standarding dieta. Unfortunately it has no index, a defect only partially made good by printing in the margins the name and dates of authors noticed.

Les Pheniciens et l'Odyssée. By Virton Barano, Val. II., Pp. vII+630 Paris i Armand Colin, 1963.

We regret that we are so late in noticing M. Berard's final volume. It continues the analysis of the different spisodes of the Odyssey with chapters on the Pseudo-Cretan's tale ; the Lotus-enters and Cyclopes; the Isla of Assilus, and the Laustrygonians; the Isla of Circu and the Nekma; the Sirens, Chayybdis, and Scylla; the Island of the Sun; and finally Ithacs. Each of these scenes is placed in a definite locality, the natural features of which seem to the author to be conclusively and exclusively indicated by the poem. The hero's wanderings from Thrace to Jerba, Jerba to tim Phlegmean Fields, the Phlegraeun Fields to Stromboli, Stromboli to N.E. Sardima, Sardima to Terracina, Terracina to Lake Avernus and back again, thence to the Straits of Messian, and lastly to the Isle of Persgil near Gibraltar and back by Corfu to Ithaca (the real one, not Prof. Dorpfeld's Leucadian Ithaca), make a stronge pattern on the map! There is no particular reason why all these identifications should not be correct, but there is also seldem any particular res on why they should be so. Our cannot help feeling that with a little hours valuate the whole Odyssey could be localised equally well almost anywhere—say, round the shores of the Black Sea. Finally M. Berard summarises his theory that (1) the Odyssey is based on a Phoenician periplica; (2) If is the work of one Homer: (3) it appeared in the numb century and probably in Greek Asia Minor. The book, whatever credit be given to its confident topography, contains a vast amount of interesting comment in the Odyssey, and deals with a wide range of knowbelge; but if the Semitic philology, on which it largely rests, were vanched for by other Semitic experts, and the Egyptology were based on less popular authorities, we should find them more convincing.

Aegina—das Heiligtum der Aphaia. Unter Mitwirkung von Ernst R. Fircuran und Henmann Thurnsen, herausgegeben von Abour Fuhrwandung. 2 Vols. Test, pp. 1x+504; 1 map. 6 full-page illustrations, and 413 figures in the text; Tofein, pp. xx+130 plates. Munich: 1906, 120 m.

These volumes contain in the first place a thorough and scientific record of the Bavarian excavations of the well-known temple on Aegina in 1901; in the second, the results of a detailed study of all the products of the earlier excavations by Cockerell and von Haller in 1811, as now pre-cryed in Monich, in the light of new data and of modern methods. These results are startling and even revolutionary in character, but it is impossible to doubt their correctness in the main ; and they give the book a foremost place among the archaeclogical works of the present generation. The most general interest will be aroused by Prof. Furtwängler's treatment of the sculpture from the pediasents. The arrangement of these groups, as restored by Thorwaldsen, in Munich, has become familiar from its reproduction in all histories of art, and has been regarded as typical of early polimental composition; but it only represents one of Cockerell's various suggestions, and really rests on no svidence at all. With the help, not only of the extant remains from Aegina, but also of a study of other early pediments and their principles of composition, and of the treatment of similar subjects on contemporary vases, Prof. Furtwangler has made a new reconstruction of the east and west pediments which, if not certain in all its details, must be accepted in its general character. For the rigidly conventional arrangement of the older system we find substituted a division into lively groups, and a motion from as well as to the centre which give one a very different motion of pedimental composition. The existence of figures from a third pedimental group of combatants seems well attested ; and the suggestion that It was the unsuccessful one in a competition, set up in front of the temple, is interesting. The much disputed question of the dedication of the temple seems to be settled by the discovery of inscriptions with the name of Aphaia; the site of the temple of Zens Panhellenias has been found near the Oros. As to that of Athena, mentioned by Herodotus, Furtwangler now doubts its existence, and would accept Kurz' emendation of Admins for "Affiguates

The architectural study of the temple, and of other buildings earlier and later, is carried out very thoroughly by Dr. Flechter. The chief problem is the carriers arrangement of the opisthodourns and the door, unsymmetrically placed, leading into it from the back of the cella; this is explained as doe to a change of plan, made during the building in order to accommodate some subsidiary shrines. The minor antiquities are carefully treated by Prof. Thiersch. Perhaps the most interesting are some fragments of Nancrathe vases with inscriptions painted apon them, and so apparently made to order. It is, however, incurrect to state that no other vases from Nancratis have been found on Greek soil, except on the Athenian Acropolis; there are some among the pottery from Rheneia, baried there

when the Athenians purified Delos.

The illustrations are mostly excellent; the only fault to be found is with the somewhat crude colouring of the plates with coloured sculpture; however entifactory as diagrams, their artistic effect is not good. The form is to be commended—two moderates aired and uniform volumes, instead of an unwishly follouther and a smaller text.

Architecture East and West: a collection of essays written at various times during the last stricen years. By R. Phexe Scriens, F.S. A., F.R. I.B.A. London-Batsford, 1905. Pp. xvii+269. With a portrait and 116 illustrations, 33 full-page plates.

Strictly speaking, most of the assays in this book have no direct relation to Hellenic studies, but some of them will interest all those who care to trace the development and influence of Hellenic and Byzantine forms in east and west. The essays are placed in

order of their publication; and, as each is independent and complete in itself, this course may be justified; but it might have been more instructive to begin with that on the influence of Greek art on the Parsian order, which corrects many current errors and misapprehensions, to follow it with the essay on Sassanian architecture, and so on. These two articles are both helpful to the understanding of the true relations between east and west; they are followed by most interesting studies of the relation and contrast of forms found in Syria, in Byzantium, in N. Italy, and in the S. of France. The essays were mostly written for architectural students, and some of them require special knowledge to be appreciated in detail; but this does not prevent their being also useful to the layman who wishes to obtain a nation of some of the most interesting problems of architectural relations and influences.

Primitive Athens, as described by Thucydides. By J. E. Hangison. Pp. xii+168, with a frontispiece and 49 illustrations, including several plans. Cambridge University Press, 1905. 6s. net.

Miss Harrison, in her preface, expressly renounces the intention of issuing a second edition of her 'Mythology and Monuments of Ancient Athens,' on the ground that the needs it met are now supplied, in English at least, by other recent books. But these recent books do not, in her opinion, do justice to Prof. Dörpfeld's theories upon some sucial points of Athenian topography—she has therefore restated these theories with confident cloquence; and incidentally has taken the opportunity of giving a popular and interesting account, not only of topographical questions, but also of such matters as the most recent reconstructions of the early pediments on the Acropolia, and the mythological investigations which she has made peculiarly her own. There has been a good deal of discovery and study within the last two or three years that is not controversial in character, and of this also Miss Harrison gives the most recent summary. Her book well fulfills its avowed intention of giving the scholar a vivid impression of primitive Athens. As to the controversy from which it starts, those who wish to form an unbiassed judgment would do well to supplement Miss Harrison's impassioned advocacy by a study of Mr. Frazer's judicial summary of the evidence.

A History of Architectural Development. By F. M. Siarson, Vol. I. Ancient, Early Christian, and Byzantine. Pp. xvi+272; 186 illustrations, many full-page. London; Longmans, Green, and Co., 1905. 12s. 6d. net. [Tim Architect's Library.]

This book is a brief summary, intended mainly for inchitects; Greek architecture is dealit with in only about fifty pages, it does not therefore supply the long-felt need of a good pepular work on Greek architecture. Even within these limits there are some curious errors. Thus the early Ionic column from the temple of Apolio at Naucratis is classed as Egyption, if not Prolemaic. It is certainly neither, but archaic Greek. Again, even on this scale, the essential differences between the Attic Ionic of the Erschthoum and the more ordinary type might have been emphasised. The small size of the theatre of Dionysus at Athens is dwelt upon, and it is said to be only 165 feet across at the top: really it is more than twice this, and the largest extant in Greece. On the other hand, Prof. Simpson has an interesting theory as to the alteration of the original plan of the Erschtheum, which is more moderate than Dörpfeld's, and is made independently. In the chapters on Byzantine architecture there is much matter; but the students for whom the book is intended would probably have been grateful for some clearer general expecition of the various influence and the theories held about them by modern critics.

Geschichte der griechischen Kunst. By Williams Kams. Vol. i. Die griechische Kunst bis Myron. Pp. 473. Vol. ii. Die griechische Kunst von Myron bis Lysipp. Pp. 407. Leipsie Veil & Co., 1904, 1905. 13 m. and 11 m.

The author has undertaken the task of writing the general history of Greek art with a running pen, but yet on a considerable scale. In the first volume he touches lightly on the ethnographic questions which surround the beginnings of Greek art, and views the subject in successive chapters as Greek art before the reception of the Mythos, between the reception of the Mythos and the beginning of markle scalptore, and at the control the Tyrants. For the periods before the Persian wars considerable use is made of the remains of the lesser arts, and especially of the paintings. After the Persian wars attention is confined to the scalptors and greater painters. A third volume is announced, which will deal with the Hellenistic period.

The work is a useful and exceedingly interesting survey of an enormously wide field. It is open to question, however, whether the lines of the book are wisely drawn. The treatment is too detailed for the purposes of a manual, but units the formal statement of facts demanded of a history. Illustrations are altogether wanting, and the book can only be used artisfactorily by a reader who has eccess to an archaeological library.

Catalogue of the Sparta Museum. By M. N. Ton and A. J. R. Wace. Pp. viii+249, with 85 figures. Oxford: Clarendon Press, 1996. 10s. 6d.

This Catalogue was a necessary preliminary to the survey of Laconia which has been undertaken by the British School at Athena. Though not in form an official publication of the School, it is in fact a part of that enterprise. Mr. Tod is responsible for the inscriptions, and Mr. Wace for the sculptures. The work consists of (1) an introduction to the inscriptions; (2) the text of the inscriptions (in cursive type only for the most part) with such commentary as a required to justify the text, which is in all cases based on a sureful re-reading of the stones; (3) full indices; (4) an introduction to the scaleptures; (5) the catalogue of the sculptures, which is accompanied by a considerable number of blocks in the text; (6) a full index to the sculptures (it may be questioned whether any one will profit by such an entry as 'Imperial paried' followed by some 250 references); (7) me account of the miscellaneous antiquities in the Museum, such as the votive felot figures from the Museum and elsewhere. The book is indispensable for the sindy of Sparts and Laconia.

Musée National du Louvre. Catalogue des Vases Antiques de Terre Cnite. Par E. Porries. 3ms Paris: L'Ecole Attique. Pp. 534. Paris Librairies Imprimerus Réunies, 1995. 3 f. 50 c.

A satisfied of the formula of the fo

M. Portler has now reached the period which to many students is the most interesting in the history of Greek vases, that of the Attic Schools, or the black-figure and red-figure periods. In his two previous volumes by discussed the primitive and earlier Greek fabrics, and the present one includes the Attic vases of the sixth and fifth centuries found on Italian soil, and therefore imported from Athens during the period when these products found favour in Etruria. The volume opens with a sketch of the growth of the Athenian potteries under Poisiatratos, followed by a discussion of painting in the black-figure method

and its place in the history of art; the author rightly emphasizes the fact that this method must have continued well into the fifth century, side by side with the red figures, by which it was by no means entirely displaced. Next we have some illuminating remarks on technical processes, and on the emphasizes under which the Athenian potters worked. In the latter connexton the author has done good service by the distinctions he draws between potters and painters, a distinction often overlooked or confused hitherto. His conclusion is this: In the case of the formulae o deira images and experts and a deira from the production of the wase: but the more frequent a deira confused interpret. Usually it may be seemed to refer to the master and director of the pottery who himself designed the vase and overlooked the work of his subordinates (see pp. 607 ft.).

Then follows a description of the black-figured vases (Salla P), carefully classified and grouped, in a roughly chronological order. The red-figured vases (Salla G) are similarly dealt with the introduction to this part (pp. 817-879) being mainly concerned with the style and products of the known artists, Euphronios, Duris, etc., as well as with such matters as chronology, drawing, and subjects. Throughout, the thume is treated with the breadth of knowledge, earlity of judgment, and charm of style which characteriss all M. Pottier's work. Our only regret is that space forbids to enlarge further on the maritis

of this really delightful volume.

A Catalogue of the Greek Coins in the British Museum: Catalogue of the Greek Coins of Phrygia By Barelay V. Head. Map and 53 Plates. Landon: Printed by Order of the Trustees, 1906. Pp. cvi+492. 40c.

This volume is the twenty-lifth Greek Coin Catalogue Issued by the British Museum. It is also the last of the great series for which Mr. Head will be officially responsible. As such it is a fitting grown to a long career of distinguished public service. The coinage of Phrygia lms little attraction for the ordinary collector. The district was not opened up to civilization until the days of Alexander. Consequently no coins were strick till the art of die-cutting had long passed its smith. The mints were not numerous at first, and with two or three conspicuous exceptions they were comparatively inactive until Roman times. Under Imperial rule Phrygia awake to an em of extraordinary prosperity. Minis multiplied and mins were issued abundantly. Many of the issues were obviously made in connection with recurrent religious festivals, -a circumstance that has led to the use of not a few interesting mythological types. The inscriptions too, for a similar reason are often important. A careful study of them is calculated to throw a flood of light upon municipal organization in the Eastern provinces. In his thorough and comprehensive Introduction Mr. Haud is able to give us astenishingly long lists of names of individual magnetrates, while his Index of Remarkable Inscriptions contains material for investigation on several distinct lines. In little more than thirty years the total number of Phrygian coins in the trays of the Museum has more than trelded itself. Mr. Head's volume gives a detailed description of 2148. specimens. When it is mentioned that Mionnet was only able to record 1636 varieties in all, it will be seen how rich our national collection has become, largely (be it midel) through Mr. Head's own fostering cure. So far as the compiler's share is concerned, the workmanship of the book touches the highest level of excellence. The plates are good, but not so good that our does not wide them better. The map is impifal.

Historical Greek Coins, Described by G. F. Hill. 13 Plates. London: Constable, 1906, Pp. xx+182, 10s. 6d, net.

This book is primarily intended for the general student of Greek history, who cannot reasonably be expected to be also a specialist in audient numberatics. Its purpose is

to show by actual illustrations the kind of evidence that is to be looked for from coins, and to bring home to its readers the importance of asking, in any serious discussion of a historical problem, 'Can we get help from the coins?' One hundred specimens in all are discussed. Their selection has been determined by a desire to choose 'pieces which, either by the mere fact that they were issued, or else by information conveyed through their fabric, types, inscriptions, or standard, actually add their quantum to our knowledge of the period to which they belong " Mr. Hill writes clearly and with fullness of knowledge. In each discussion he brings us abreast of the most recent researches, and at the same time exercises an independent judgment. The result is a stimulating and useful volume. How wide is the range of interest can best be indicated by mentioning that such various personalities as Crossus, Themistocles, Pharmabagus, Epaminondas, Timoleon, Flaminimus, and Pompey figure in the pages, while the historical events touched upon include the 'crowning mercy' of Himers, the Athenian dissister in Sielly, and the formation of an Anti-Spartan league after the battle of Chains. The book is admirably printed. The half-tone plates, though naturally less effective than colletype, are remarkably good of their kind. A glessary and an index are provided.

Die hellenische Kultur. Dargestellt von Fritz Baumanten, Franz Poliano, Richam Wagsen. Pp. x + 489. With 7 coloured plates, 2 maps, and about 400 illustrations. Leipzig and Berlin: 1005. 12 m.

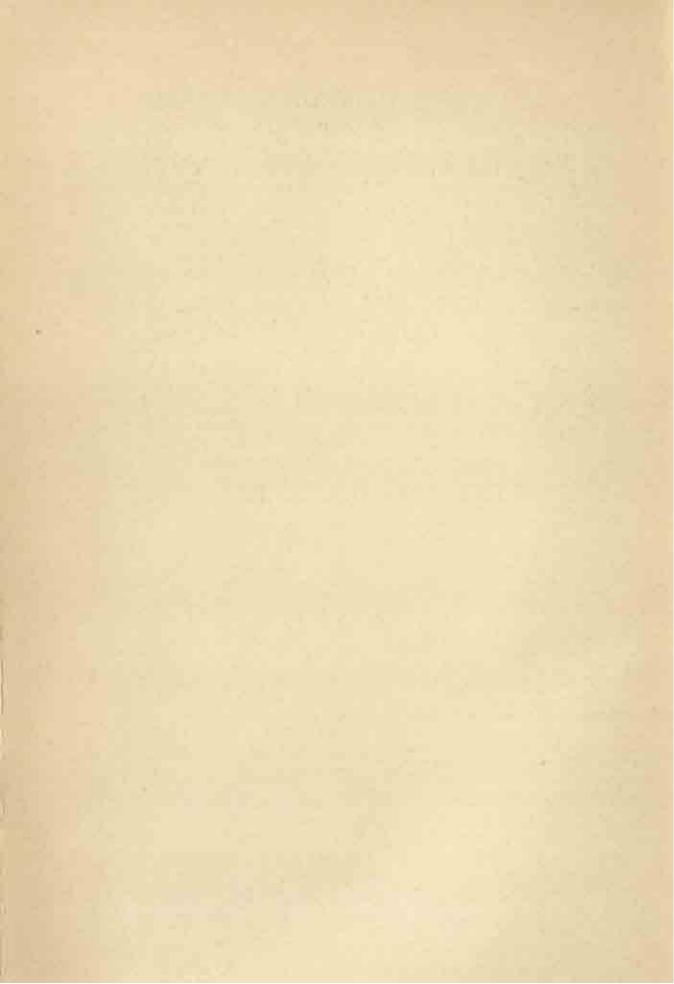
This is an attempt to give in a single volume a comprehensive survey of Greek history, art, and literature from the earliest times to the less of Greek independence. The work is divided into three great periods, viz. (1) The Early Age of Greece, comprising the remains of Pre-Mycenman and Mycenmean cryllization; (2) The Greek Middle Age-roughly from 1000-500 n.c.; (3) The Culminating Period (500-338 p.c). Each of the three authors has taken charge of one of the three special sections into which the two last-named periods have been divided. One deals with the development of the state and of religion, the second with Art and Architecture, the third with Literature. Such an arrangement has the advantage of giving unity to the work. No pains have been spared in incorporating the results of recent researches, and an excellent collection of illustrations has been got together. The weak point is to be found in the arrangement of the latter. It is certainly discomposing to find late red-figured vases, fourth-century coins, and Graeco-Roman jewellery joined with a store-chamber of the Palace at Knossos to illustrate the Period 750-500 n.c. The book is intended for use in the school and the home, and as a whole fulfils its aim with success. The addition of bibliographies might have made it useful to the student and the scholar plan.

Melandra Castle. Report of the Manchester and District Branch of the Classical Association for 1905. Edited by R. S. Conway. With an Introduction by the Rev. E. L. Hicks. Manchester: University Press, 1906. Pp. xvi+167. With Map, Prontispiece, and minerous Illustrations. 5a

This little book deserves a warm websons. It is pleasant to find the rounger universities taking a serious interest in archaeology, and pleasant to acknowledge the first real fruit that the Classical Association has brought touth. The sits of Meisneira—a Rouan costellim in the uplands of Derleyshirs—was partially explored by Mr. John Garstang in 1892. The present Report gives an amount of further excavations carried out by a Committee of the Classical Association in 1905. One could have wished that the harvest had been richer. The actual results were not very important. Such as they were, however, they are here set forth with a fullness and an enthusiasan that usern high commonisation. Apart from Canon Highs and the compiler of the excellent index, there are no fewer than seven contributors, each of whom duals with one or more special aspects of the subject. These include such

well-known experts as Frof. Boyd Dawkins and Dr. Haverfield. An incidental drawback to the system adopted is that it entails a certain amount of repetition. The same fact is frequently mentioned independently in two or three different articles. Mr. F. A. Bruton gives a clear and careful account of the disging. The rampart is the structural feature to which most interest attaches, and in regard to that the last word is still to say. The pottery is admirably described by Mr. Hopkinson. This is one of the best portions of the book. Its chief weakness is the writer's too great realiness to regard the latest theories as tinal. Excellent as is the work done recently by Dragendorff and Dechelette, their influctions have still to be tested by observation over a wide area. We are told, for instance, by Mr. Hopkinson that "Bowls [of "terra sigillate"] of shape 29 are found in Britain as far north as York, but beyond York (i.e. in the parts of Britain occupied later than 80 a.p., only bowls of shape 37 (pp. 81 f.). Fragments of shape 29 occur at more than one site on Hadrian's Wall: if we mistake not, there are several in the Blackgate Museum at Newenstle. Others have been found recently at Newstead near Melrose. Seven or eight years ago quite a number were discovered at Camelon beyond the Scottish 'Vallum'. These facts may not weaken the force of Dragondorff's inference. Possibly they may strengthen it. But they are facts, and they should not be ignored. The very interesting series of weights provides Prof. Conway (who is a singularly competent editor) with material for ingenious speculation, and he also discusses the coins. We confess to grave doubte about the 'Jewish' coin. If it were really Jewish, the fabric should be unmistakable. Nor are we inclined to how the knee to the British Museum in regard to the Roman origin of the carious bronze plate from 'Pym's Parlour,' But these are small points. The book is a most creditable piece of work. And the printing and the general 'get-up' are all that could be lesired.

For other books received, see List of Accession to the Library.



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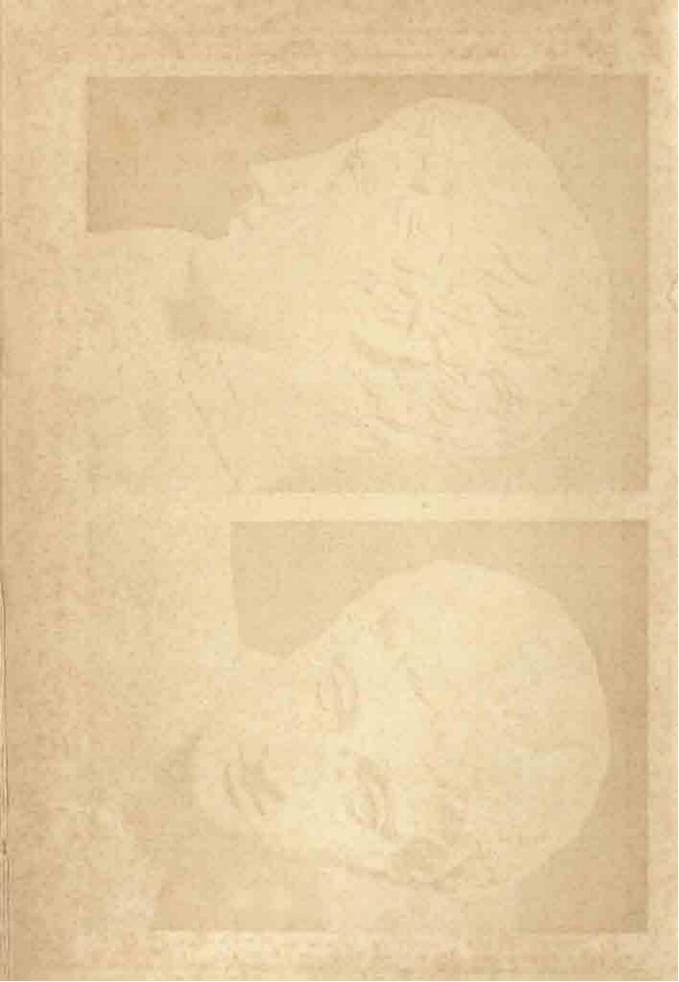
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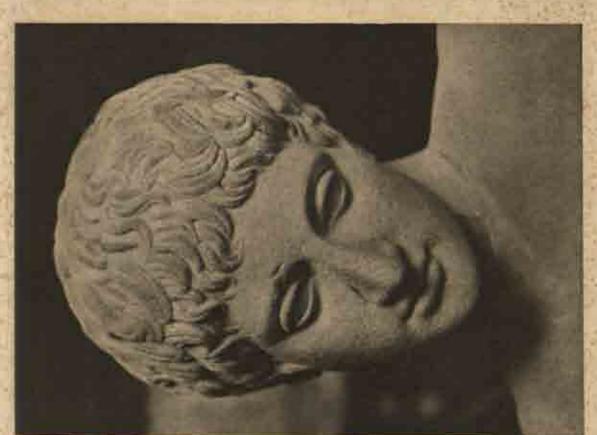
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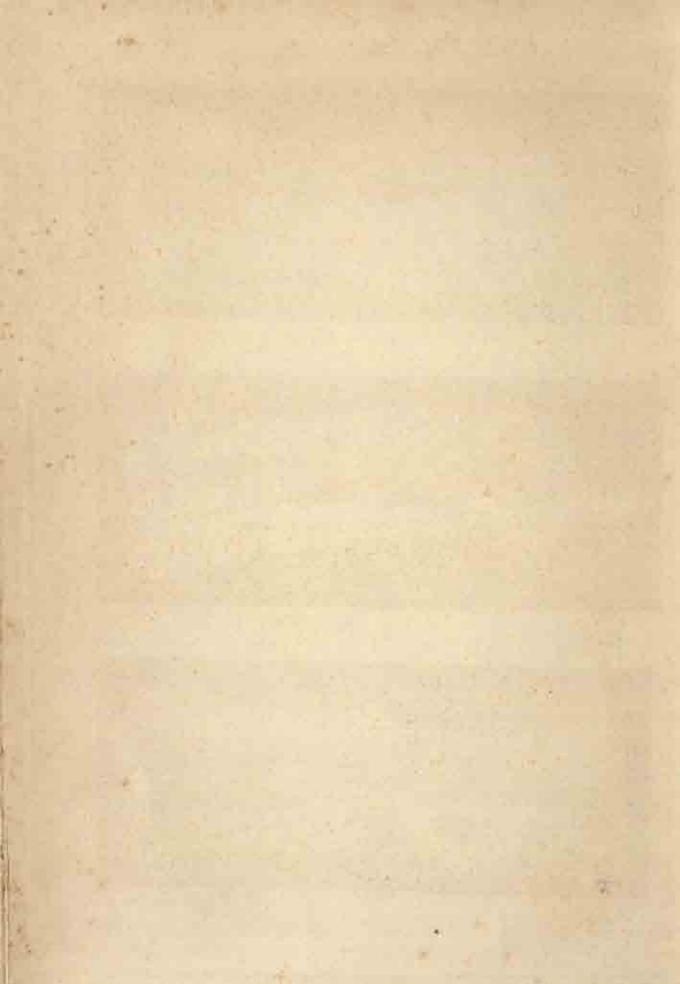
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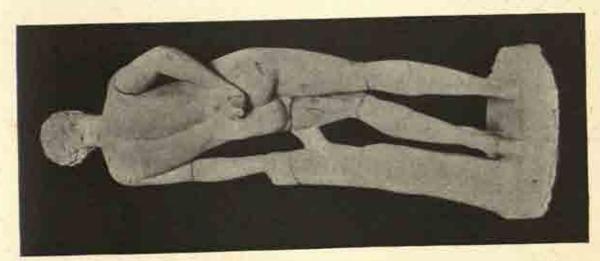


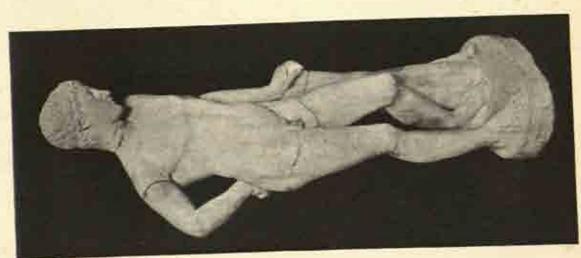




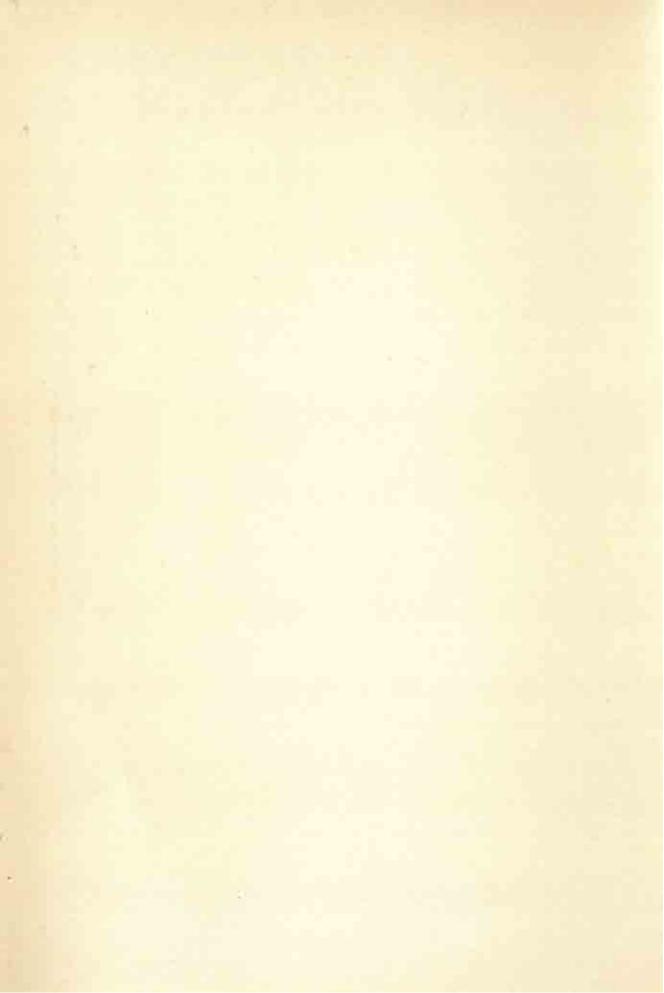


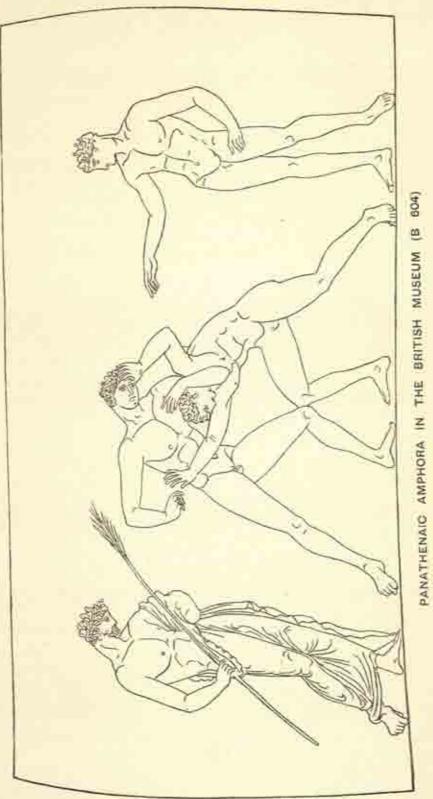


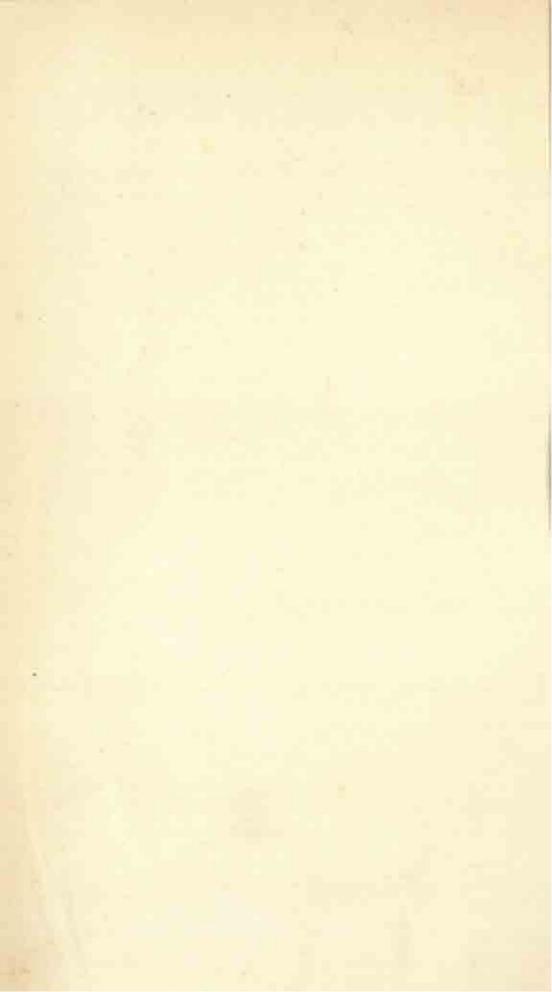


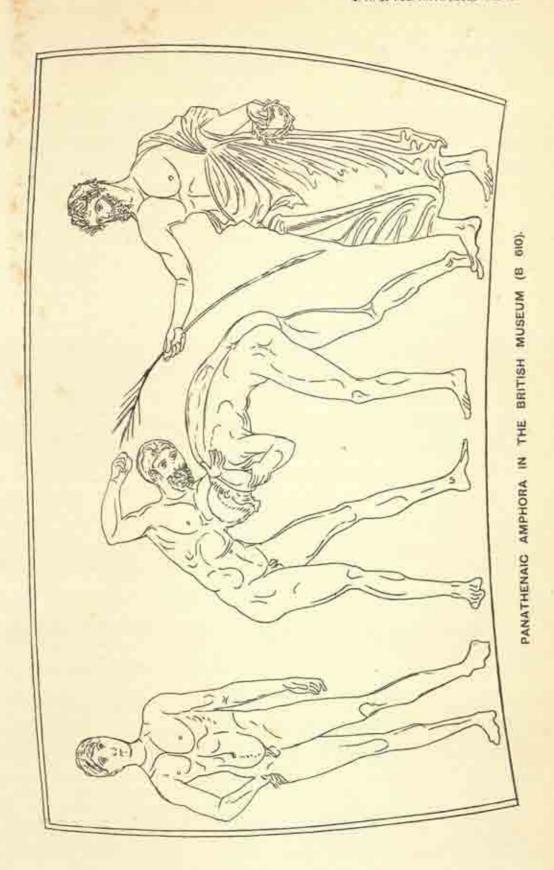


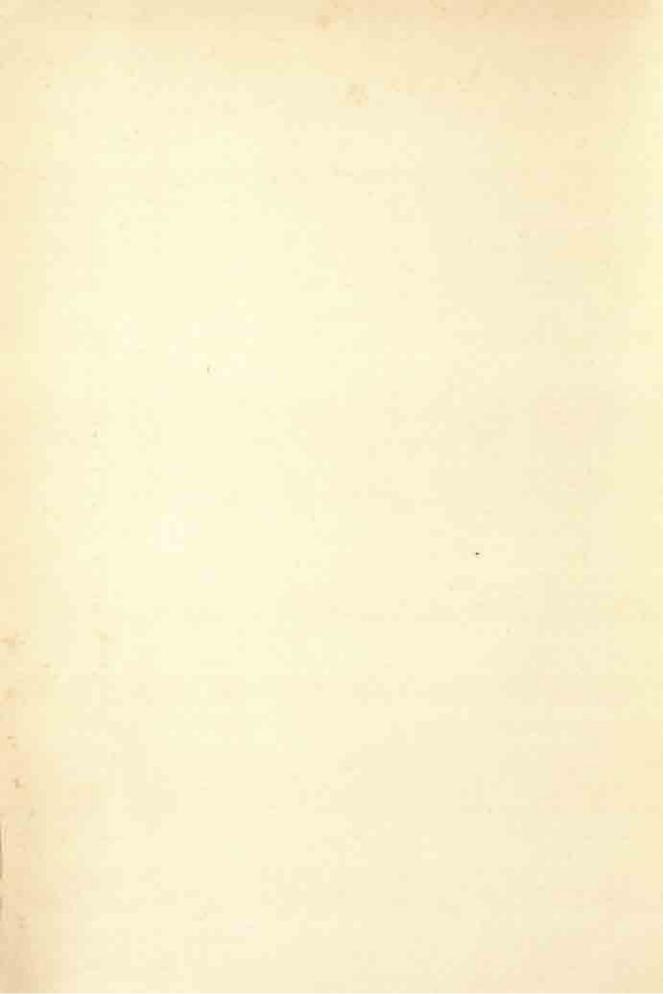
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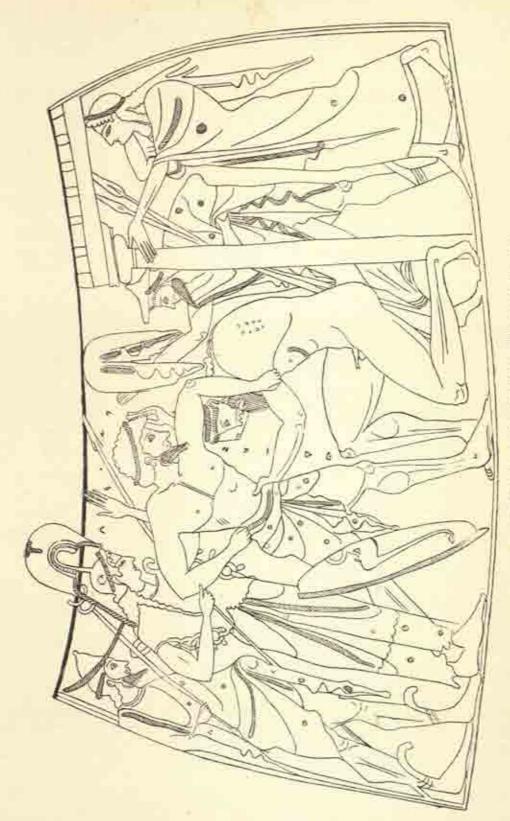




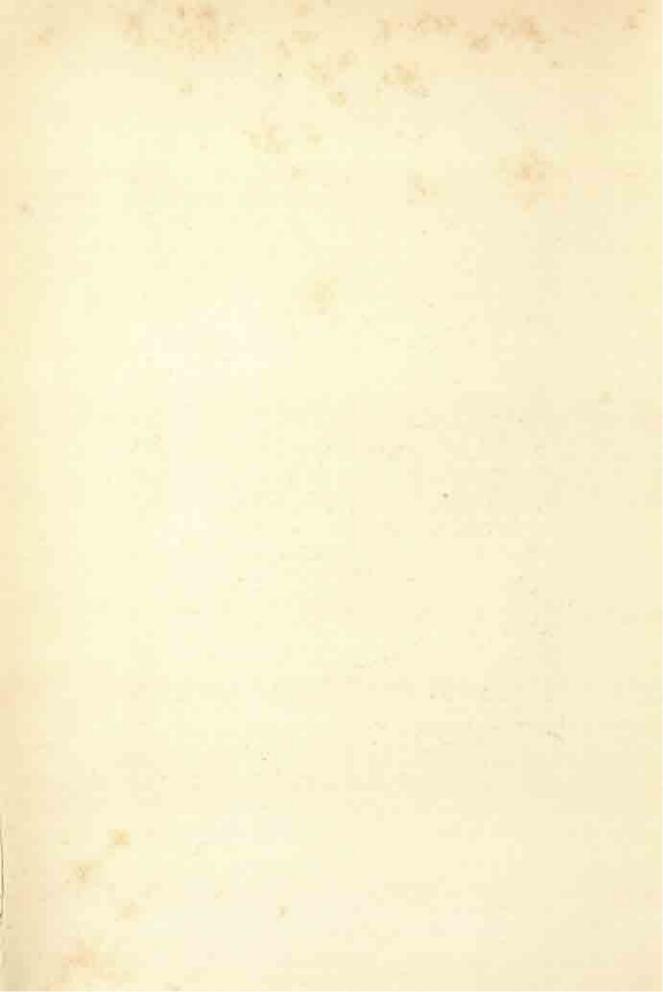








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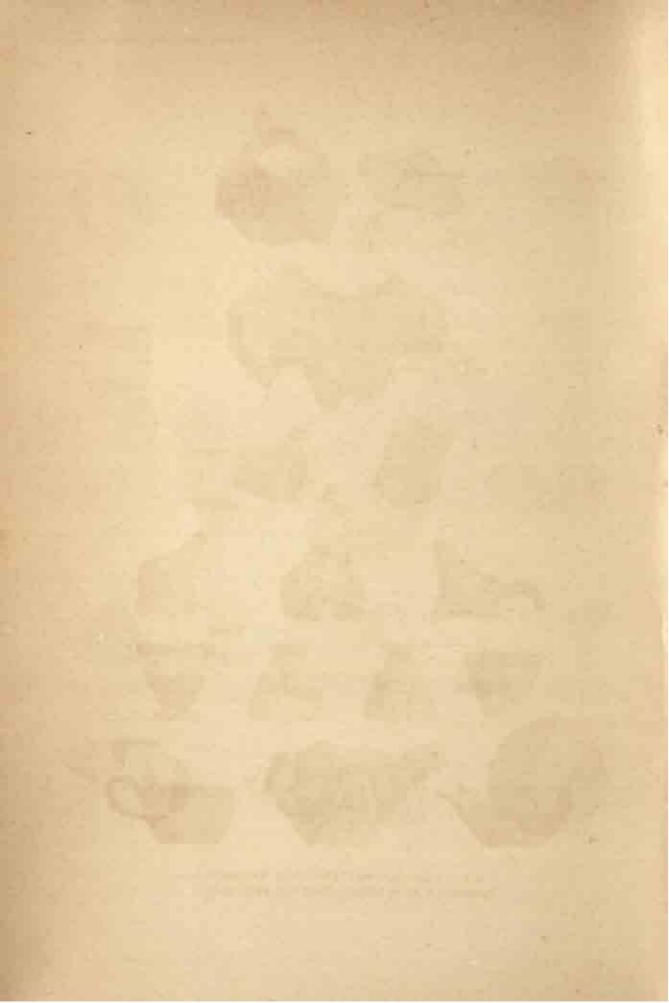


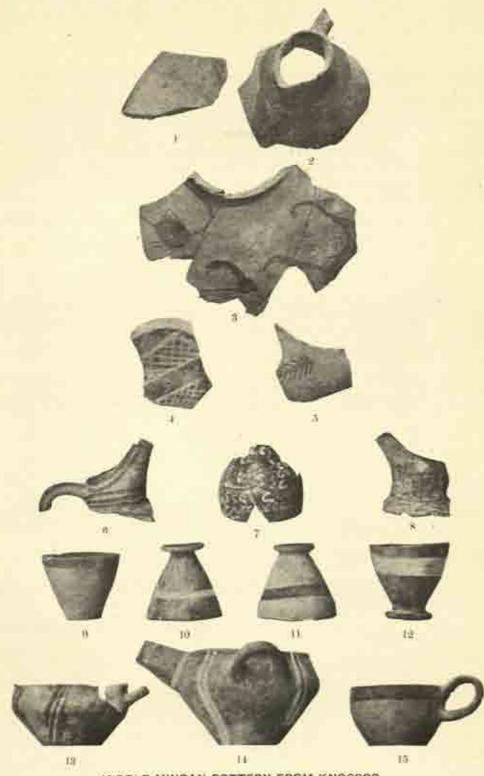
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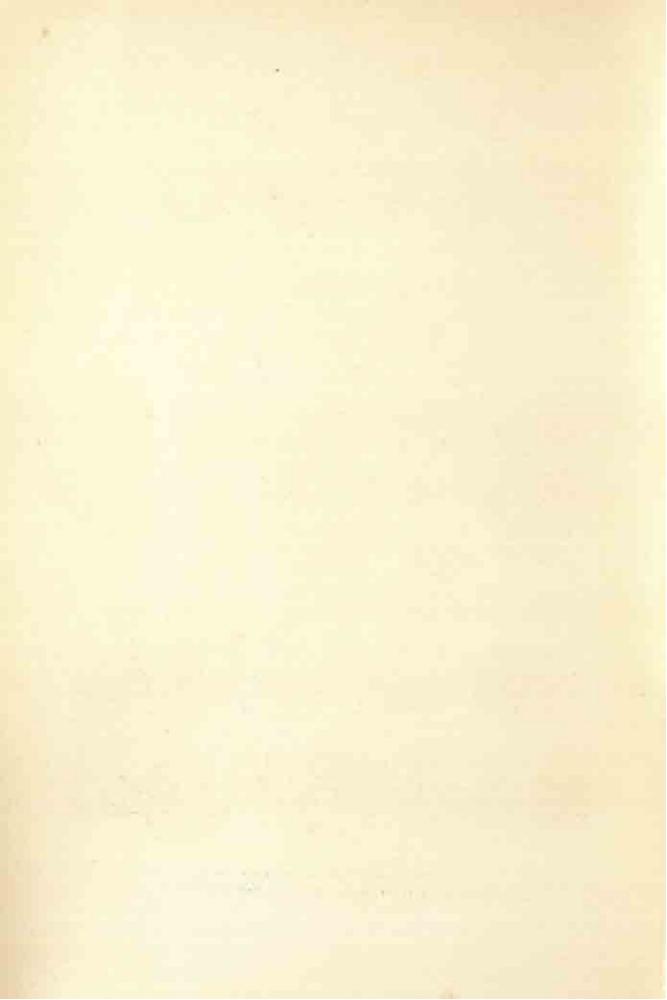


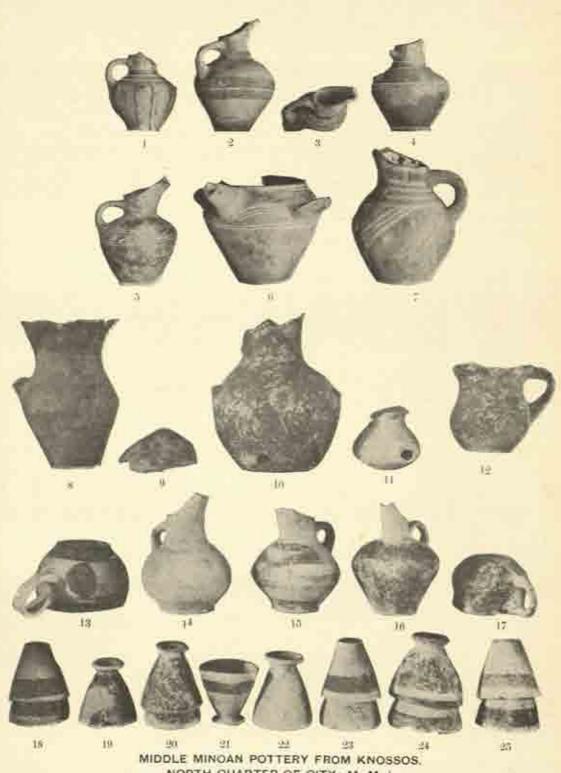
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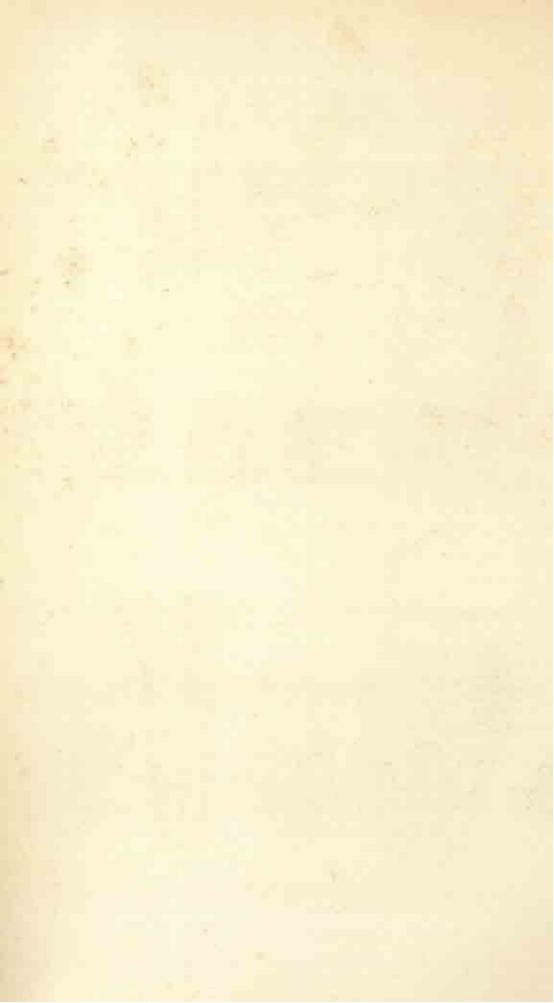


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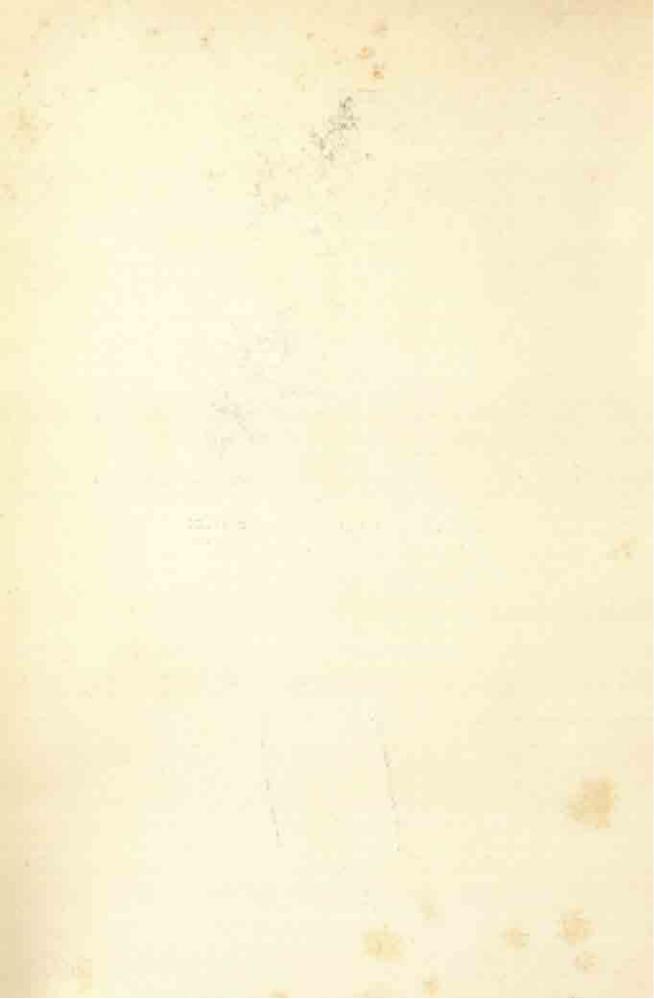


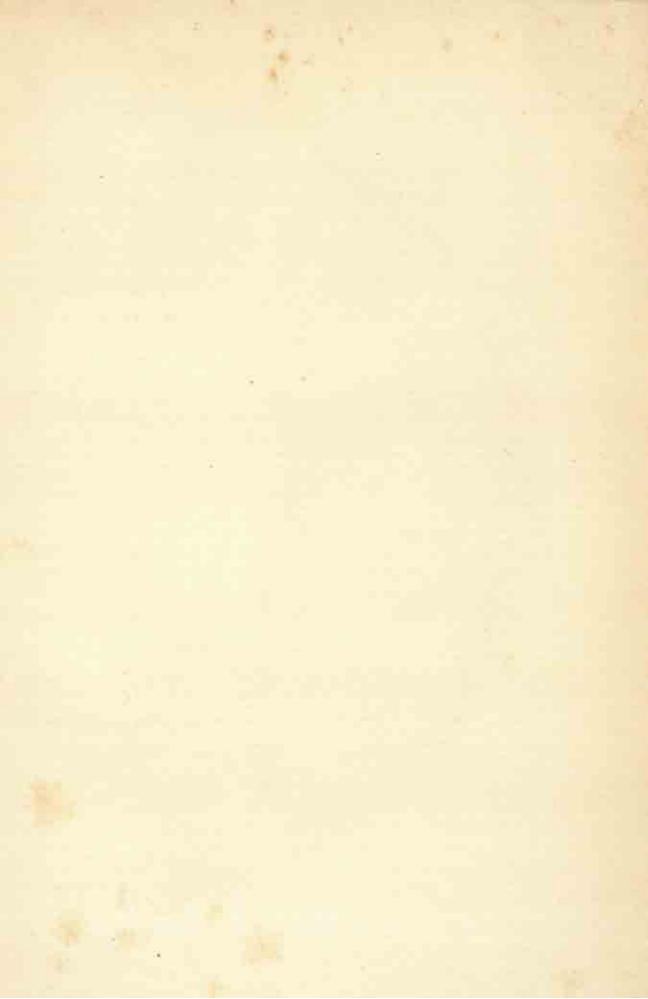


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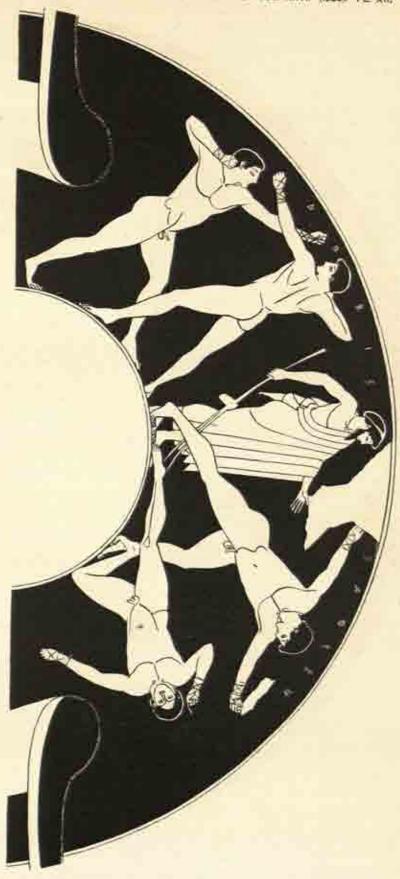
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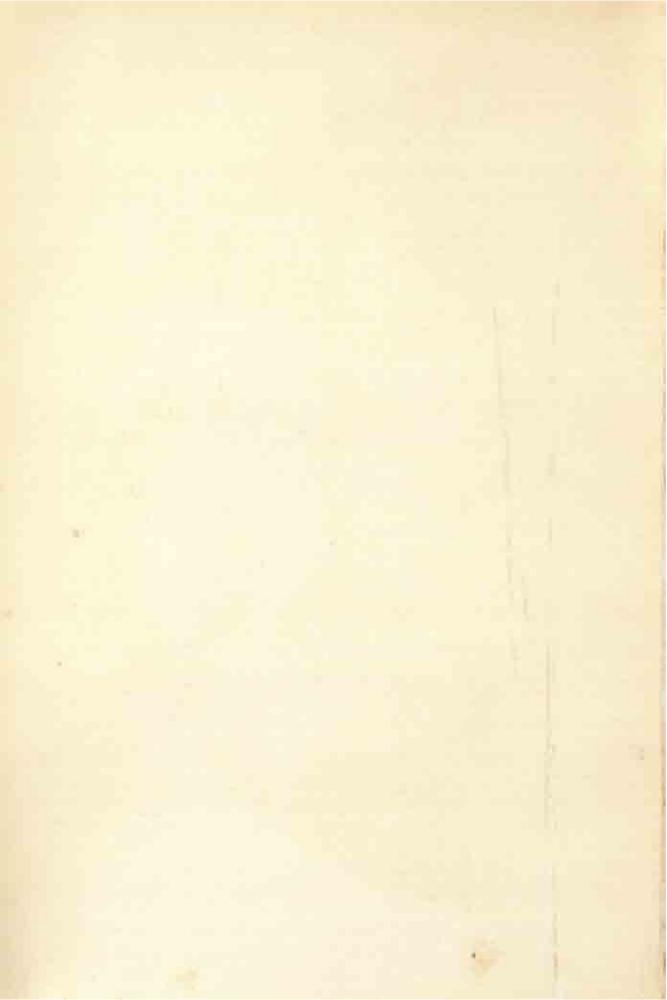


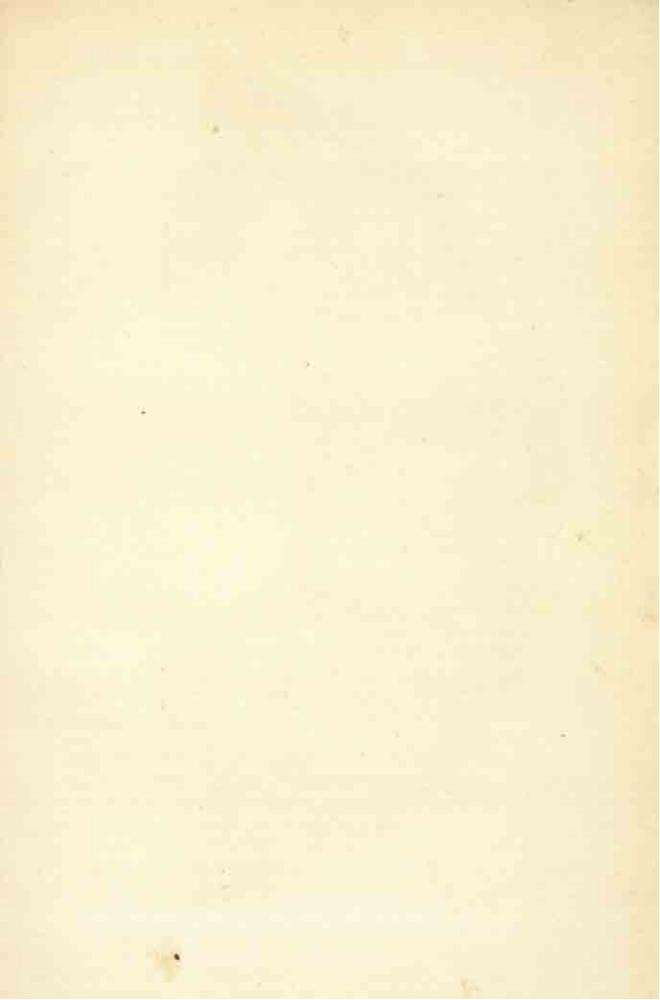


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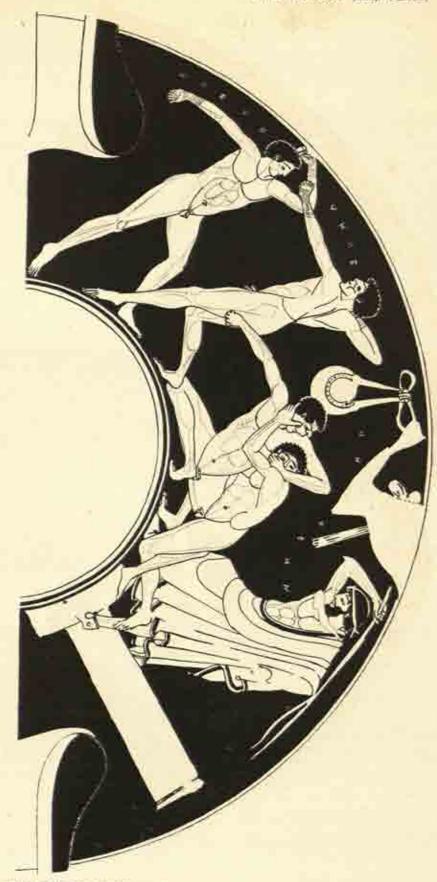
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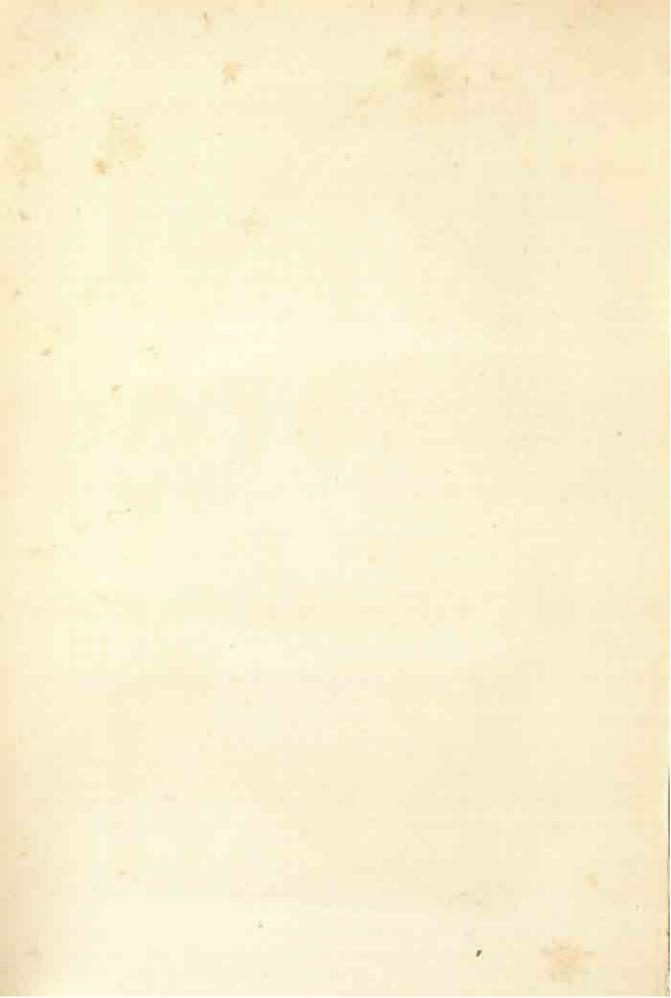


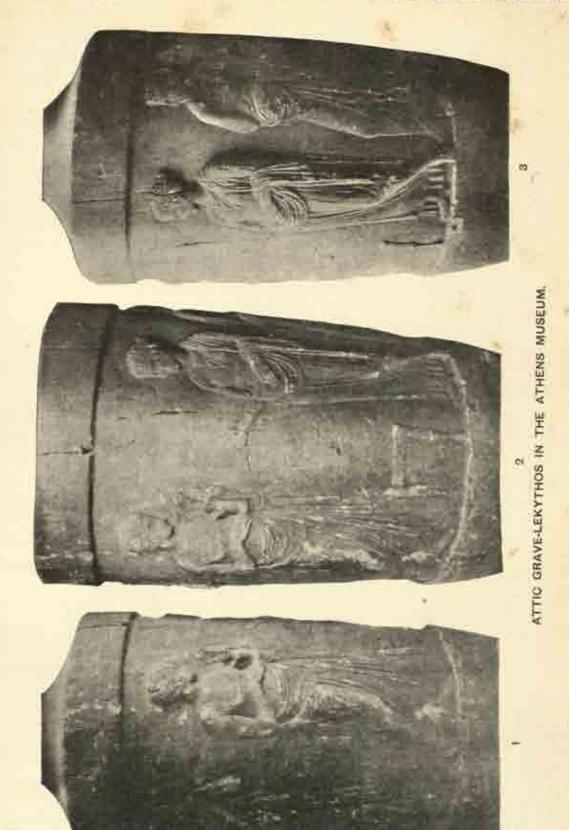


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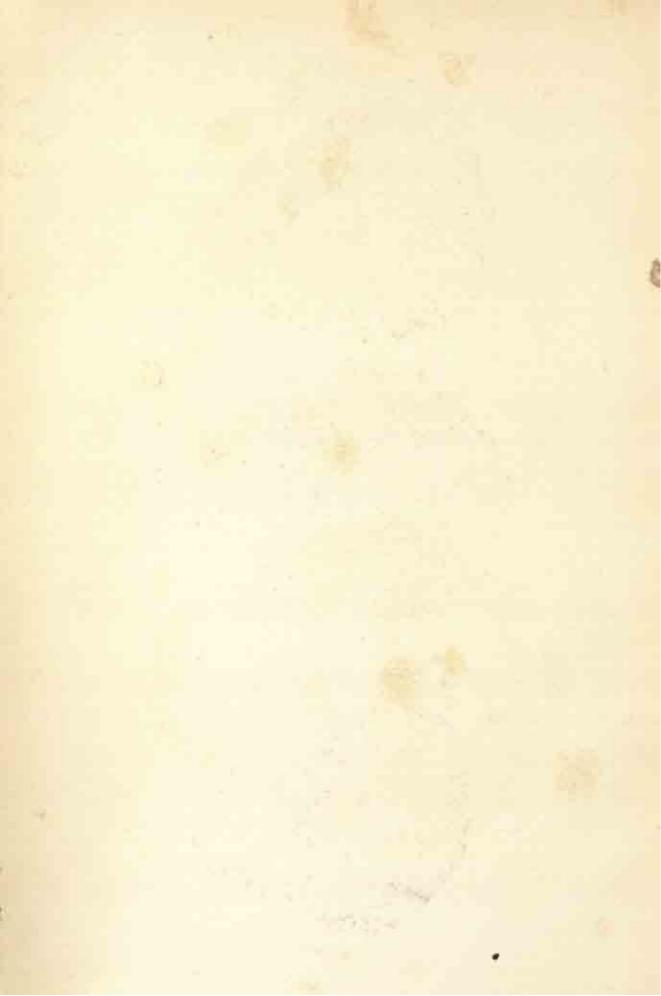






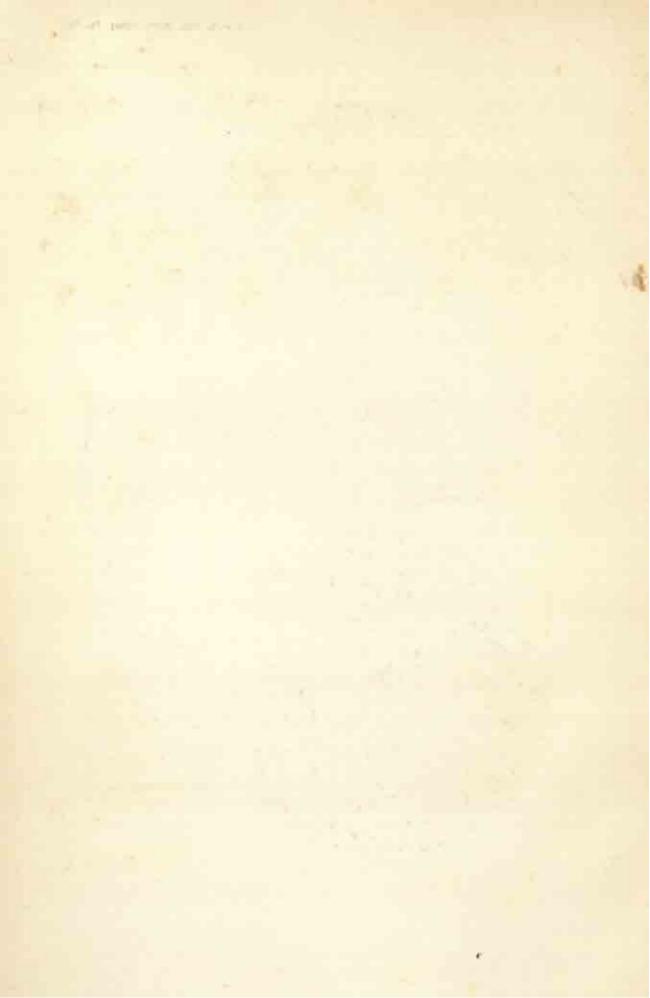


FIFTH CENTURY MALE HEAD AT TURIN.



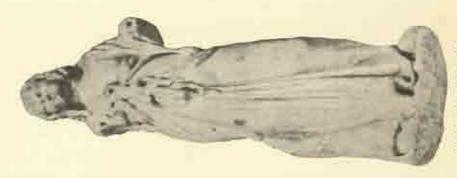


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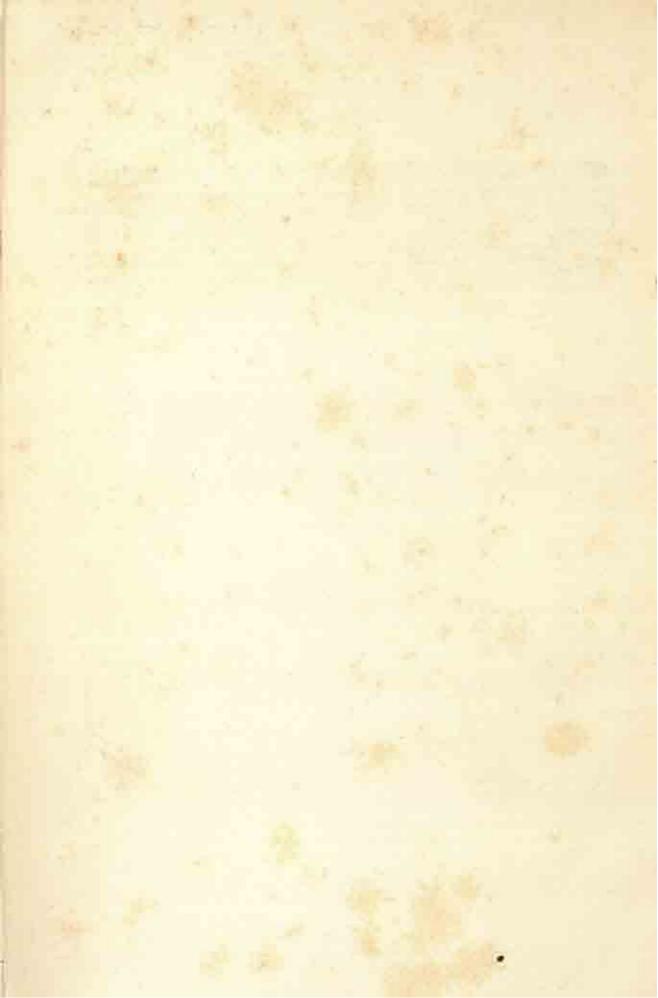
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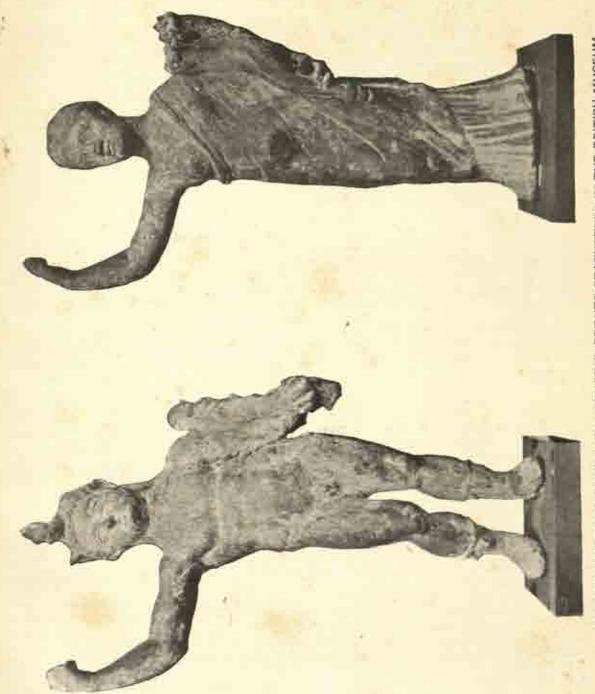


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